Safety Data Sheet
according to WHS Regulations

Date of issue: 10.09.2025 Version No. 4 Revision: 10.09.2025

Not classified as hazardous according to criteria of Australian Safety and Compensation Council.

*
1 Identification

· **Other means of identification**

· **Trade name: UZIN KR 430 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-Comp. Polyurethane Adhesive
· **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
Phone +49 731 4097-0

Supplier:
Uzin Utz South Pacific Ltd.
Representative Office Australia
PO BOX 474, Helensvale
Queensland 4272
Australia
Mobile: +61 419 169925
E-Mail: info-au@uzin-sp.com

· **Further information obtainable from:** Sales Department

· **Emergency telephone number:**
NSW Poisons Information Centre:
Call 13 11 26 from anywhere in Australia (24/7)
Transportation emergencies: +49 621 60 43 333

*
2 Hazard(s) Identification

· **Classification of the substance or mixture**
The product is not classified, according to the Globally Harmonised System (GHS).

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

· **Label elements**
· **GHS label elements** Void
· **Hazard pictograms** Void
· **Signal word** Void
· **Hazard statements** Void

· **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%.

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*
3 Composition and Information on Ingredients

· **Chemical characterisation: Mixtures**

· **Description:** 2-Comp. Polyurethane Adhesive

· **Dangerous components:**			
CAS: 111-46-6	2,2'-oxybisethanol	Acute toxicity - oral – Category 4, H302	1-<3%

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

*
4 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.
However, also observe the safety data sheet of component B.
· **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:**
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:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
· **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 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 B.

*
5 Fire Fighting Measures

· **Suitable extinguishing agents:**
CO_2, 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.
· **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.

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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.
Also observe the safety data sheet of component B.
· **Information about fire - and explosion protection:** *No special measures required.*
· **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.
· **Specific end use(s)** *No further relevant information available.*

*
8 Exposure controls and personal protection

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

· **Ingredients with limit values that require monitoring at the workplace:**	
CAS: 111-46-6 2,2'-oxybisethanol	
WES	Long-term value: 100 mg/m³, 23 ppm

· **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.

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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.
· **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 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.

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9 Physical and Chemical Properties

· **General Information**	
· **Appearance:**	
· **Form:**	Pasty
· **Colour:**	Beige
· **Odour:**	Light
· **Odour threshold:**	Not determined.
· **pH-value:**	Not determined.
· **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.
· **Upper:**	Not determined.
· **Vapour pressure:**	Not determined.
· **Density at 20 °C:**	1.4 g/cm³

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· **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:**	180,000 mPas
· **Kinematic:**	Not determined.
· **Other information**	
· **Particle characteristics**	Not applicable.
· **Physical state**	Liquid

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

*
11 Toxicological Information

· **Information on toxicological effects**
· **Acute toxicity** Based on available data, the classification criteria are not met.

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

CAS: 111-46-6 2,2'-oxybisethanol

Oral	LD50	12,565 mg/kg (rat)
Dermal	LD50	11,890 mg/kg (rabbit)

· **Primary irritant effect:**
· **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
· **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
· **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.
· **Information on other hazards**

· **Endocrine disrupting properties**
None of the ingredients is listed.

*
12 Ecological Information

· **Toxicity**
· **Aquatic toxicity:** No further relevant information available.

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· **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.
· **Endocrine disrupting properties**
This substance/mixture does not contain components that are endocrine disruptors according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1% or more.

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** · **ADG, ADN, IMDG, IATA**	Void
· **UN proper shipping name** · **ADG, ADN, IMDG, IATA**	Void
· **Transport hazard class(es)** · **ADG, ADN, IMDG, IATA** · **Class**	Void
· **Packing group** · **ADG, 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.

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· **UN "Model Regulation":** Void

15 Regulatory information

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

· **Australian Inventory of Industrial Chemicals**

All ingredients are listed.

· **Standard for the Uniform Scheduling of Medicines and Poisons**

All substances have the value S5, S6, S10.

· **Australia: Priority Existing Chemicals**

None of the ingredients is listed.

· **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.

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

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

· **Contact:**
Mobile: +61 419169925
E-Mail: info-au@uzin-sp.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)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Acute toxicity - oral – Category 4: Acute toxicity – Category 4

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

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Hazardous according to criteria of Australian Safety and Compensation Council.

*
1 Identification

· **Other means of identification**

· **Trade name: UZIN KR 430 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-Comp. Polyurethane Adhesive
· **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
Phone +49 731 4097-0

Supplier:
Uzin Utz South Pacific Ltd.
Representative Office Australia
PO BOX 474, Helensvale
Queensland 4272
Australia
Mobile: +61 419 169925
E-Mail: info-au@uzin-sp.com

· **Further information obtainable from:** Sales Department

· **Emergency telephone number:**
NSW Poisons Information Centre:
Call 13 11 26 from anywhere in Australia (24/7)
Transportation emergencies: +49 621 60 43 333

*
2 Hazard(s) Identification

· **Classification of the substance or mixture**

GHS06 skull and crossbones

Acute toxicity - inhalation – Category 1	H330 Fatal if inhaled.

GHS08 health hazard

Respiratory sensitisation – Category 1	H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Carcinogenicity – Category 2	H351 Suspected of causing cancer.
Specific target organ toxicity (repeated exposure) – Category 1	H372 Causes damage to organs through prolonged or repeated exposure.

GHS07

Skin corrosion/irritation – Category 2	H315 Causes skin irritation.

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Eye damage/irritation – Category 2A	H319 Causes serious eye irritation.
Skin sensitisation – Category 1	H317 May cause an allergic skin reaction.
Specific target organ toxicity (single exposure) – Category 3	H335 May cause respiratory irritation.

· **Label elements**
· **GHS label elements**
The product is classified and labelled according to the Globally Harmonised System (GHS).
· **Hazard pictograms**

GHS06 GHS08

· **Signal word** Danger

· **Hazard-determining components of labelling:**
Diphenylmethanediisocyanate, isomers and homologues (75-100 %)
Methylenediphenyl diisocyanate (10-<20 %)
o-(p-isocyanatobenzyl)phenyl isocyanate (10-<20 %)
· **Hazard statements**
Fatal 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.
Causes damage to organs through prolonged or repeated exposure.
· **Precautionary statements**
Obtain special instructions before use.
Wear protective gloves/protective clothing/eye protection/face protection.
IF ON SKIN: Wash with plenty of soap and water.
IF INHALED: Remove victim to fresh air and keep at rest in a position 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 and Information on Ingredients

· **Chemical characterisation: Mixtures**

· **Description:** 2-Comp. Polyurethane Adhesive

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· **Dangerous components:**

CAS: 9016-87-9	Diphenylmethanediisocyanate, isomers and homologues Acute toxicity - inhalation – Category 1, H330; Respiratory sensitisation – Category 1, H334; Carcinogenicity – Category 2, H351; Specific target organ toxicity (repeated exposure) – Category 1, H372; Skin corrosion/irritation – Category 2, H315; Eye damage/irritation – Category 2A, H319; Skin sensitisation – Category 1, H317; Specific target organ toxicity (single exposure) – Category 3, H335	75-100%
CAS: 101-68-8	Methylenediphenyl diisocyanate Acute toxicity - inhalation – Category 1, H330; Respiratory sensitisation – Category 1, H334; Carcinogenicity – Category 2, H351; Specific target organ toxicity (repeated exposure) – Category 1, H372; Skin corrosion/irritation – Category 2, H315; Eye damage/irritation – Category 2A, H319; Skin sensitisation – Category 1, H317; Specific target organ toxicity (single exposure) – Category 3, H335	10-<20%
CAS: 5873-54-1	o-(p-isocyanatobenzyl)phenyl isocyanate Acute toxicity - inhalation – Category 1, H330; Respiratory sensitisation – Category 1, H334; Carcinogenicity – Category 2, H351; Specific target organ toxicity (repeated exposure) – Category 1, H372; Skin corrosion/irritation – Category 2, H315; Eye damage/irritation – Category 2A, H319; Skin sensitisation – Category 1, H317; Specific target organ toxicity (single exposure) – Category 3, H335	10-<20%

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

*
4 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.

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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.

*
5 Fire Fighting Measures

· **Suitable extinguishing agents:**
CO_2, 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.
· **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.
Ensure adequate ventilation
· **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.
· **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.

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

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

*

8 Exposure controls and personal protection

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

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

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

WES	Short-term value: 0.07 mg/m³ Long-term value: 0.02 mg/m³ Sen, as -NCO

CAS: 101-68-8 Methylenediphenyl diisocyanate

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

CAS: 5873-54-1 o-(p-isocyanatobenzyl)phenyl isocyanate

WES	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/mg³ (worker)
	DNEL - longtime effect	0.025 mg/m³ (human/consumer)
		0.05 mg/m³ (worker)

CAS: 101-68-8 Methylenediphenyl diisocyanate

Dermal	DNEL	50 mg/kg / bw/day (worker)
Inhalative	DNEL - acut effect	0.1 mg/mg³ (worker)
	DNEL - longtime effect	0.05 mg/m³ (worker)

CAS: 5873-54-1 o-(p-isocyanatobenzyl)phenyl isocyanate

Inhalative	DNEL - acut effect	0.1 mg/mg³ (worker)
	DNEL - longtime effect	0.05 mg/m³ (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)

CAS: 5873-54-1 o-(p-isocyanatobenzyl)phenyl isocyanate

PNEC - seawater	0.1 mg/l (seawater)
PNEC - freshwater	1 mg/l (freshwater)
PNEC - sediment	1 mg/kg (ground)

· ***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.
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.

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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).

· **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.

· **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.

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9 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:**	Undetermined.
· **Flash point:**	>200 °C
· **Flammability**	Not applicable.
· **Auto-ignition temperature:**	400 °C
· **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.

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· **Vapour pressure:**	Not determined.
· **Density at 20 °C:**	1.4 g/cm³
· **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:**	250 mPas
· **Kinematic:**	Not determined.
· **Other information**	
· **Particle characteristics**	Not applicable.
· **Physical state**	Liquid

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10 Stability and Reactivity

· **Reactivity** No further relevant information available.
· **Chemical stability** Stable under normal conditions.
· **Thermal decomposition / conditions to be avoided:**
From approx. 260°C, polymerization and separation of CO_2.
· **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.
· **Conditions to avoid** Avoid heating to above 40°C and cooling to below 10°C.
· **Incompatible materials:**
Uncontrolled exothermic reactions occur with amines and alcohols.
During storage, avoid moisture contamination.
· **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.

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11 Toxicological Information

· **Information on toxicological effects**
· **Acute toxicity** Fatal 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	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** 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.

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· **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** Causes 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.
· **Interactive effects**

· **CMR effects (carcinogenity, 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.
Methylenediphenyl diisocyanate, CAS 101-68-8
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.
· **Information on other hazards**

· **Endocrine disrupting properties**
None of the ingredients is listed.

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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)
CAS: 5873-54-1 o-(p-isocyanatobenzyl)phenyl isocyanate	
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.
Methylenediphenyl diisocyanate, CAS 101-68-8
Biodegradation: 0 %, 28 d, i.e. not potentially degradable
Method: OECD test guideline 302 C
Test on a comparable product.

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· **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.

· **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.
· **Endocrine disrupting properties**
This substance/mixture does not contain components that are endocrine disruptors according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1% or more.

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**	
· **ADG, ADN, IMDG, IATA**	Void
· **UN proper shipping name**	
· **ADG, ADN, IMDG, IATA**	Void
· **Transport hazard class(es)**	
· **ADG, ADN, IMDG, IATA**	
· **Class**	Void
· **Packing group**	
· **ADG, IMDG, IATA**	Void
· **Environmental hazards:**	
· **Marine pollutant:**	No
· **Special precautions for user**	Not applicable.

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· **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

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15 Regulatory information

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

· **Australian Inventory of Industrial Chemicals**

All ingredients are listed.

· **Standard for the Uniform Scheduling of Medicines and Poisons**

None of the ingredients is listed.

· **Australia: Priority Existing Chemicals**

None of the ingredients is listed.

· **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.

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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**
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H330 Fatal if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 May cause respiratory irritation.
H351 Suspected of causing cancer.
H372 Causes damage to organs through prolonged or repeated exposure.

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

· **Contact:**
Mobile: +61 419169925
E-Mail: info-au@uzin-sp.com

· **Abbreviations and acronyms:**
ICAO: International Civil Aviation Organisation
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
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

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vPvB: very Persistent and very Bioaccumulative
Acute toxicity - inhalation – Category 1: Acute toxicity – Category 1
Skin corrosion/irritation – Category 2: Skin corrosion/irritation – Category 2
Eye damage/irritation – Category 2A: Serious eye damage/eye irritation – Category 2A
Respiratory sensitisation – Category 1: Respiratory sensitisation – Category 1
Skin sensitisation – Category 1: Skin sensitisation – Category 1
Carcinogenicity – Category 2: Carcinogenicity – Category 2
Specific target organ toxicity (single exposure) – Category 3: Specific target organ toxicity (single exposure) – Category 3
Specific target organ toxicity (repeated exposure) – Category 1: Specific target organ toxicity (repeated exposure) – Category 1

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