

Safety Data Sheet

acc. to OSHA HCS

Printing date 03/15/2022

Version No. 1

Reviewed on 03/15/2022

1 Identification

- **Trade name:** UZIN XtraGuard Comp. A
- **Application of the substance / the mixture** 3-Component Design Epoxy Mortar (Component A)
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
 Manufacturer:
 UZIN UTZ AG
 Dieselstrasse 3
 D-89079 Ulm
 Germany
 Tel.: +49 (0)731 4097-0
 Fax: +49 (0)731 4097-110
- **Supplier:**
 Uzin Utz North America, Inc.
 14509 E. 33rd. Place, Unit G
 Aurora, CO 80011
 Phone: +720-374-4810
 Toll-Free: +1 866-505-4810
 Fax: +1 720-374-2113
- **Information department:**
 Product safety department
 email: msds.info@uzin-utz.com
- **Emergency telephone number:**
 For Chemical Emergency Spill Leak Fire Exposure or Accident
 Call CHEMTREC Day or Night: DOMESTIC NORTH AMERICA 800-424-9300
 International, call +49 621 60 43 333

2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS09 Environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



GHS07

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.

- **Label elements**
- **GHS label elements**
 The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



GHS07



GHS09

- **Signal word** Warning
- **Hazard-determining components of labeling:**
 Bisphenol-A-epoxy resin (average molecular weight ≤ 700)
 Bisphenol-F-epoxy resin (average molecular weight ≤ 700)

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1,3-bis(2,3-epoxypropoxy)-2,2-dimethylpropane
alkyl C12-C14 glycidyl ether

· **Hazard statements**

Causes skin irritation.
Causes serious eye irritation.
May cause an allergic skin reaction.
Toxic to aquatic life with long lasting effects.

· **Precautionary statements**

Avoid release to the environment.
Wear protective gloves / 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 or rash occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.

· **Information pertaining to particular dangers for man and environment:**

· **NFPA ratings (scale 0 - 4)**



Health = 2
Flammability = 1
Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**



HEALTH 2 Health = 2
FIRE 1 Flammability = 1
REACTIVITY 0 Reactivity = 0

· **Other hazards**

NFPA Rating Scale: 0 = Minimal; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe.
NFPA is the National Fire Protection Association.
HMIS Rating Scale: 0 = Minimal; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe.
HMIS®, the Hazardous Materials Identification System, is a registered mark of the National Paint and Coatings Association (NPCA).

· **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

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

· **Hazardous ingredients:**

CAS: 1675-54-3	Bisphenol-A-epoxy resin (average molecular weight ≤ 700) ⚠ Aquatic Chronic 2, H411; ⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317; Aquatic Acute 2, H401	25-50%
CAS: 9003-36-5	Bisphenol-F-epoxy resin (average molecular weight ≤ 700) ⚠ Aquatic Chronic 2, H411; ⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317; Aquatic Acute 2, H401	25-50%
CAS: 17557-23-2	1,3-bis(2,3-epoxypropoxy)-2,2-dimethylpropane ⚠ Skin Irrit. 2, H315; Skin Sens. 1, H317; Flam. Liq. 4, H227	25-50%
CAS: 68609-97-2	alkyl C12-C14 glycidyl ether ⚠ Skin Irrit. 2, H315; Skin Sens. 1, H317	10-<20%

· **Additional information:**

The exact percentages of the ingredients have been withheld by the manufacturer as trade secrets.

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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.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Call a doctor.
- **After swallowing:** Do not induce vomiting; immediately call for medical help.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** Allergic reactions
- **Indication of any immediate medical attention and special treatment needed**
Also observe SDS of component B.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
CO₂ extinguishing 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** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** Mouth respiratory protective device.

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.
- **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 item 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.
- **Protective Action Criteria for Chemicals**

· PAC-1:		
CAS: 1675-54-3	Bisphenol-A-epoxy resin (average molecular weight ≤ 700)	39 mg/m ³
· PAC-2:		
CAS: 1675-54-3	Bisphenol-A-epoxy resin (average molecular weight ≤ 700)	430 mg/m ³
· PAC-3:		
CAS: 1675-54-3	Bisphenol-A-epoxy resin (average molecular weight ≤ 700)	2,600 mg/m ³

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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.
 - Wash hands before breaks and at the end of work.
- **Information about protection against explosions and fires:** 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 receptacle tightly sealed.
 - Protect from humidity and water.
 - Protect from frost.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**
 - The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Exposure controls**
- **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.
 - Wash hands before breaks and at the end of work.
- **Respiratory protection:** Not necessary. Ensure that room is well-ventilated during processing.
- **Protection of hands:**



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

- **Material of gloves**
 - Butyl rubber, BR
 - Nitrile rubber, NBR
 - Recommended thickness of the material: ≥ 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.

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· **Eye protection:**

Tightly sealed goggles or face protection

9 Physical and chemical properties

· **Information on basic physical and chemical properties**· **General Information**· **Appearance:**

· Form:	Fluid
· Color:	Yellowish
· Odor:	Weak, characteristic
· Odor threshold:	Not determined.

· **pH-value:** Not determined.· **Change in condition**

· Melting point/Melting range:	Undetermined.
· Boiling point/Boiling range:	Undetermined.

· **Flash point:** >100 °C (>212 °F)· **Flammability (solid, gaseous):** Not applicable.· **Ignition temperature:** >200 °C (>392 °F)· **Decomposition temperature:** Not determined.· **Auto igniting:** Product is not selfigniting.· **Danger of explosion:** Product does not present an explosion hazard.· **Explosion limits:**

· Lower:	Not determined.
· Upper:	Not determined.

· **Vapor pressure:** Not determined.· **Density at 20 °C (68 °F):** 1.11 g/cm³ (9.26 lbs/gal)· **Relative density** Not determined.· **Vapor 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 (68 °F):	~180 mPas (Brookfield)
· Kinematic:	Not determined.

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

10 Stability and reactivity

· **Reactivity** No further relevant information available.· **Chemical stability**· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.· **Possibility of hazardous reactions**

May produce violent reactions with bases and numerous organic substances including alcohols and amines.

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- Exothermic polymerization.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:**
Irritant gases/vapors
At elevated temperatures hazardous decomposition products such as carbon dioxide, carbon monoxide, smoke or nitric oxids may be evolved.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **Specific symptoms in biological assay:**
- **Primary route(s) of entry:** Inhalation, skin contact, eye contact, ingestion.
- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect.
- **Sensitization:** Sensitization possible through skin contact.
- **Additional toxicological information:** Carcinogenic.
- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

CAS: 1675-54-3	Bisphenol-A-epoxy resin (average molecular weight \leq 700)	3
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- **NTP (National Toxicology Program)**

None of the ingredients is listed.

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

12 Ecological information

- **Toxicity**

- **Aquatic toxicity:**

CAS: 1675-54-3 Bisphenol-A-epoxy resin (average molecular weight \leq 700)

EC50/48h	1.8 mg/l (Daphnia magna)
EC50/72h	11 mg/l (Scenedesmus capricornutum)
LC50/96h	2 mg/l (Piscis)

- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Toxic for fish

- **Additional ecological information:**

- **General notes:**

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

Toxic for aquatic organisms

Also poisonous for fish and plankton in water bodies.

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

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

13 Disposal considerations

· **Waste treatment methods**· **Recommendation:**

The product contains materials that are harmful to the environment.
Do not allow product to reach ground water, water course or 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 packagings:**· **Recommendation:**

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

14 Transport information

· **DOT** Void
· **ADR, IMDG, IATA** UN3082

· **UN proper shipping name**

· **DOT** Void
· **ADR** 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy resins)
· **IMDG** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy resins), MARINE POLLUTANT
· **IATA** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy resins)

· **DOT**
· **Class** Void

· **IMDG, IATA**

· **Class** 9 Miscellaneous dangerous substances and articles
· **Label** 9
· **DOT** Void
· **IMDG, IATA** III

· **Environmental hazards:**

· **Marine pollutant:** Yes
Symbol (fish and tree)
· **Special marking (ADR):** Symbol (fish and tree)
· **Special marking (IATA):** Symbol (fish and tree)

· **Special precautions for user** Warning: Miscellaneous dangerous substances and articles
· **EMS Number:** F-A,S-F
· **Stowage Category** A

· **Transport/Additional information:** Not regulated as hazardous material according to the above specifications.

· **UN "Model Regulation":** UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESINS), 9, III

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15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- SARA (Superfund Amendments and Reauthorization Act)

- **EPCRA Section 302 (Extremely Hazardous Substances):**

None of the ingredient is listed.

- **SARA Title III Section 313 (Toxic Release Inventory - TRI):**

None of the ingredients is listed.

- **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

All components have the value ACTIVE.

- **Hazardous Air Pollutants**

None of the ingredients is listed.

- **Proposition 65 (California)**

- **Chemicals known to cause cancer:**

None of the ingredients is listed.

- **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

- **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

- **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

- **Carcinogenicity categories**

- **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

- **TLV (Threshold Limit Value)**

None of the ingredients is listed.

- **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

- **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms**



GHS07 GHS09

- **Signal word Warning**

- **Hazard-determining components of labeling:**

Bisphenol-A-epoxy resin (average molecular weight ≤ 700)Bisphenol-F-epoxy resin (average molecular weight ≤ 700)

1,3-bis(2,3-epoxypropoxy)-2,2-dimethylpropane

alkyl C12-C14 glycidyl ether

- **Hazard statements**

Causes skin irritation.

Causes serious eye irritation.

May cause an allergic skin reaction.

Toxic to aquatic life with long lasting effects.

- **Precautionary statements**

Avoid release to the environment.

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Wear protective gloves / 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 or rash occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

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.

· **Contact:**

Hyun-Ju Lee

Phone: +1 303-374-4810

Mobile: +1 302-258-4442

· **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

DOT: US Department of Transportation

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)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Flam. Liq. 4: Flammable liquids – Category 4

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

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

Skin Sens. 1: Skin sensitisation – Category 1

Aquatic Acute 2: Hazardous to the aquatic environment - acute aquatic hazard – Category 2

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

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1 Identification

- **Trade name:** UZIN XtraGuard Comp. B
- **Application of the substance / the mixture** 3-Component Design Epoxy Mortar (Component B)
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
 Manufacturer:
 UZIN UTZ AG
 Dieselstrasse 3
 D-89079 Ulm
 Germany
 Tel.: +49 (0)731 4097-0
 Fax: +49 (0)731 4097-110
- **Supplier:**
 Uzin Utz North America, Inc.
 14509 E. 33rd. Place, Unit G
 Aurora, CO 80011
 Phone: +720-374-4810
 Toll-Free: +1 866-505-4810
 Fax: +1 720-374-2113
- **Information department:**
 Product safety department
 email: msds.info@uzin-utz.com
- **Emergency telephone number:**
 For Chemical Emergency Spill Leak Fire Exposure or Accident
 Call CHEMTREC Day or Night: DOMESTIC NORTH AMERICA 800-424-9300
 International, call +49 621 60 43 333

2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS05 Corrosion

Skin Corr. 1B H314 Causes severe skin burns and eye damage.
 Eye Dam. 1 H318 Causes serious eye damage.



GHS09 Environment

Aquatic Acute 1 H400 Very toxic to aquatic life.
 Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.



GHS07

Acute Tox. 4 H302 Harmful if swallowed.
 Skin Sens. 1 H317 May cause an allergic skin reaction.

- **Label elements**

- **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

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· **Hazard pictograms**

GHS05 GHS07 GHS09

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

Fatty acids, talloil, reaction products with tetraethylene pentamine
m-phenylenebis(methylamine)
 3-aminomethyl-3,5,5-trimethylcyclohexylamine
 Phenol, styrenated
 N-(3-(trimethoxysilyl)propyl)ethylenediamine

· **Hazard statements**

Harmful if swallowed.
 Causes severe skin burns and eye damage.
 May cause an allergic skin reaction.
 Very toxic to aquatic life.
 Very toxic to aquatic life with long lasting effects.

· **Precautionary statements**

Avoid release to the environment.
 Wear protective gloves / eye protection / face protection.
 If swallowed: Rinse mouth. Do NOT induce vomiting.
 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 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.

· **Information pertaining to particular dangers for man and environment:**· **NFPA ratings (scale 0 - 4)**

Health = 3
 Flammability = 1
 Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**

Health = *3
 Flammability = 1
 Reactivity = 0

· **Other hazards**

NFPA Rating Scale: 0 = Minimal; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe.
 NFPA is the National Fire Protection Association.
 HMIS Rating Scale: 0 = Minimal; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe.
 HMIS®, the Hazardous Materials Identification System, is a registered mark of the National Paint and Coatings Association (NPCA).

· **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3 Composition/information on ingredients

· **Chemical characterization:** *Mixtures*

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

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· Hazardous ingredients:		
CAS: 68953-36-6	Fatty acids, talloil, reaction products with tetraethylene pentamine ⚠ Skin Corr. 1B, H314; Eye Dam. 1, H318; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Skin Sens. 1, H317	25-50%
CAS: 1477-55-0	m-phenylenebis(methylamine) ⚠ Skin Corr. 1B, H314; Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Sens. 1, H317; Aquatic Acute 3, H402; Aquatic Chronic 3, H412	25-50%
CAS: 2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine ⚠ Skin Corr. 1B, H314; Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302; Skin Sens. 1A, H317	20-<25%
CAS: 61788-44-1	Phenol, styrenated ⚠ Aquatic Chronic 2, H411; ⚠ Skin Irrit. 2, H315; Skin Sens. 1, H317; Aquatic Acute 2, H401	10-<20%
CAS: 1760-24-3	N-(3-(trimethoxysilyl)propyl)ethylenediamine ⚠ Eye Dam. 1, H318; ⚠ Skin Sens. 1, H317; STOT SE 3, H335	1-<3%

· **Additional information:**

The exact percentages of the ingredients have been withheld by the manufacturer as trade secrets.
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.· **After inhalation:** Supply fresh air; consult doctor in case of complaints.· **After skin contact:** Immediately wash with water and soap and rinse thoroughly.· **After eye contact:**

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing.

Call a doctor.

· **After swallowing:** Do not induce vomiting; immediately call for medical help.· **Information for doctor:**· **Most important symptoms and effects, both acute and delayed** Allergic reactions· **Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

5 Fire-fighting measures

· **Extinguishing media**· **Suitable extinguishing agents:**CO₂ extinguishing 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** No further relevant information available.· **Advice for firefighters**· **Protective equipment:** Mouth respiratory protective device.

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.

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

· **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 item 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.

· **Protective Action Criteria for Chemicals**

· **PAC-1:**

None of the ingredients is listed.

· **PAC-2:**

None of the ingredients is listed.

· **PAC-3:**

None of the ingredients is listed.

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.

Wash hands before breaks and at the end of work.

· **Information about protection against explosions and fires:** 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 receptacle tightly sealed.

Protect from frost.

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

8 Exposure controls/personal protection

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

· **Control parameters**

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

The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

CAS: 1477-55-0 m-phenylenebis(methylamine)

REL	Ceiling limit value: 0.1 mg/m ³ Skin
-----	--

TLV	Ceiling limit value: 0.018 ppm Skin
-----	--

· **Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Immediately remove all soiled and contaminated clothing.

Avoid contact with the eyes and skin.

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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.

· **Respiratory protection:** Not necessary. Ensure that room is well-ventilated during processing.

· **Protection of hands:**



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

· **Material of gloves**

Butyl rubber, BR

Nitrile rubber, NBR

Recommended thickness of the material: ≥ 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

9 Physical and chemical properties

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

· **General Information**

· **Appearance:**

· **Form:** Fluid

· **Color:** Yellow

· **Odor:** Amine-like

· **Odor threshold:** Not determined.

· **pH-value at 20 °C (68 °F):** 11

· **Change in condition**

· **Melting point/Melting range:** Undetermined.

· **Boiling point/Boiling range:** >200 °C (>392 °F)

· **Flash point:** >100 °C (>212 °F)

· **Flammability (solid, gaseous):** Not applicable.

· **Decomposition temperature:** Not determined.

· **Auto igniting:** Product is not selfigniting.

· **Danger of explosion:** Product does not present an explosion hazard.

· **Explosion limits:**

· **Lower:** Not determined.

· **Upper:** Not determined.

· **Vapor pressure:** Not determined.

· **Density at 20 °C (68 °F):** 0.99 g/cm³ (8.26 lbs/gal)

· **Relative density** Not determined.

· **Vapor density** Not determined.

· **Evaporation rate** Not determined.

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- | | |
|---|--|
| · Solubility in / Miscibility with Water: | Not miscible or difficult to mix. |
| · Partition coefficient (n-octanol/water): | Not determined. |
| · Viscosity: | |
| Dynamic at 20 °C (68 °F): | ~40 mPas (Brookfield) |
| Kinematic: | Not determined. |
| · Other information | No further relevant information available. |

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** Strong exothermic reaction with acids.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:**
Corrosive gases/vapors
At elevated temperatures hazardous decomposition products such as carbon dioxide, carbon monoxide, smoke or nitric oxids may be evolved.

11 Toxicological information

- **Information on toxicological effects**
 - **Acute toxicity:**
- | | | |
|--|----------|---|
| · LD/LC50 values that are relevant for classification: | | |
| CAS: 1477-55-0 m-phenylenebis(methylamine) | | |
| Oral | LD50 | 930 mg/kg (rat) |
| Dermal | LD50 | 3,100 mg/kg (rabbit) |
| Inhalative | LC50/4 h | 1.34 mg/l (rat) |
| CAS: 2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine | | |
| Oral | LD50 | 1,030 mg/kg (ATE)
1,030 mg/kg (rat) (OECD 401) |
| Dermal | LD50 | 1,840 mg/kg (rabbit) |
| Inhalative | LC50/4 h | >5 mg/l (rat) |
- **Specific symptoms in biological assay:**
 - **Primary route(s) of entry:** Inhalation, skin contact, eye contact, ingestion.
 - **Primary irritant effect:**
 - **on the skin:** Caustic effect on skin and mucous membranes.
 - **on the eye:** Strong caustic effect.
 - **Sensitization:** Sensitization possible through skin contact.
 - **Additional toxicological information:**
 - **Carcinogenic categories**
- | |
|---|
| · IARC (International Agency for Research on Cancer) |
| None of the ingredients is listed. |
| · NTP (National Toxicology Program) |
| None of the ingredients is listed. |

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· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Very toxic for fish
- **Additional ecological information:**
- **General notes:**
Do not allow product to reach ground water, water course or sewage system.
Very toxic for aquatic organisms
Also poisonous for fish and plankton in water bodies.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**
The product contains materials that are harmful to the environment.
Do not allow product to reach ground water, water course or 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 packagings:**
- **Recommendation:**
Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

14 Transport information

- **DOT, ADR, IMDG, IATA** UN2735
- **UN proper shipping name**
- **DOT** Polyamines, liquid, corrosive, n.o.s. (Fatty acids, talloil, reaction products with tetraethylene pentamine, m-phenylenebis(methylamine))
- **ADR** 2735 POLYAMINES, LIQUID, CORROSIVE, N.O.S. (Fatty acids, talloil, reaction products with tetraethylene pentamine, m-phenylenebis(methylamine)), ENVIRONMENTALLY HAZARDOUS
- **IMDG** POLYAMINES, LIQUID, CORROSIVE, N.O.S. (Fatty acids, talloil, reaction products with tetraethylene pentamine, m-phenylenebis(methylamine)), MARINE POLLUTANT

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· **IATA** POLYAMINES, LIQUID, CORROSIVE, N.O.S. (Fatty acids, talloil, reaction products with tetraethylene pentamine, m-phenylenebis(methylamine))

· **DOT**

· **Class** 8 Corrosive substances
 · **Label** 8

· **IMDG**

· **Class** 8 Corrosive substances
 · **Label** 8

· **IATA**

· **Class** 8 Corrosive substances
 · **Label** 8
 · **DOT, IMDG, IATA** II

· **Environmental hazards:** Product contains environmentally hazardous substances: Fatty acids, talloil, reaction products with tetraethylene pentamine

· **Marine pollutant:** Yes
 Symbol (fish and tree)

· **Special marking (ADR):** Symbol (fish and tree)

· **Special precautions for user** Warning: Corrosive substances

· **EMS Number:** F-A,S-B

· **Segregation groups** Alkalis

· **Stowage Category** A

· **Segregation Code** SG35 Stow "separated from" SGG1-acids

· **UN "Model Regulation":** UN 2735 POLYAMINES, LIQUID, CORROSIVE, N.O.S. (FATTY ACIDS, TALLOIL, REACTION PRODUCTS WITH TETRAETHYLENE PENTAMINE, M-PHENYLENEBIS(METHYLAMINE)), 8, II, ENVIRONMENTALLY HAZARDOUS

15 Regulatory information

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

· **SARA (Superfund Amendments and Reauthorization Act)**

· **EPCRA Section 302 (Extremely Hazardous Substances):**

None of the ingredient is listed.

· **SARA Title III Section 313 (Toxic Release Inventory - TRI):**

None of the ingredients is listed.

· **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

All components have the value ACTIVE.

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· **Hazardous Air Pollutants**

None of the ingredients is listed.

· **Proposition 65 (California)**

· **Chemicals known to cause cancer:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

· **Carcinogenicity categories**

· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

· **TLV (Threshold Limit Value)**

None of the ingredients is listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

· **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**



GHS05 GHS07 GHS09

· **Signal word** *Danger*

· **Hazard-determining components of labeling:**

Fatty acids, talloil, reaction products with tetraethylene pentamine

m-phenylenebis(methylamine)

3-aminomethyl-3,5,5-trimethylcyclohexylamine

Phenol, styrenated

N-(3-(trimethoxysilyl)propyl)ethylenediamine

· **Hazard statements**

Harmful if swallowed.

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

Very toxic to aquatic life.

Very toxic to aquatic life with long lasting effects.

· **Precautionary statements**

Avoid release to the environment.

Wear protective gloves / eye protection / face protection.

If swallowed: Rinse mouth. Do NOT induce vomiting.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

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.

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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.

· **Contact:**

Hyun-Ju Lee

Phone: +1 303-374-4810

Mobile: +1 302-258-4442

· **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

DOT: US Department of Transportation

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)

NFPA: National Fire Protection Association (USA)

HMS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Acute Tox. 4: Acute toxicity – Category 4

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

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

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Skin Sens. 1: Skin sensitisation – Category 1

Skin Sens. 1A: Skin sensitisation – Category 1A

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Acute 2: Hazardous to the aquatic environment - acute aquatic hazard – Category 2

Aquatic Acute 3: Hazardous to the aquatic environment - acute aquatic hazard – Category 3

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

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1 Identification

- **Trade name:** UZIN XtraGuard Comp. C
- **Application of the substance / the mixture** 3-Component Design Epoxy Mortar (Component C)
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
 Manufacturer:
 UZIN UTZ AG
 Dieselstrasse 3
 D-89079 Ulm
 Germany
 Tel.: +49 (0)731 4097-0
 Fax: +49 (0)731 4097-110
- **Supplier:**
 Uzin Utz North America, Inc.
 14509 E. 33rd. Place, Unit G
 Aurora, CO 80011
 Phone: +720-374-4810
 Toll-Free: +1 866-505-4810
 Fax: +1 720-374-2113
- **Information department:**
 Product safety department
 email: msds.info@uzin-utz.com
- **Emergency telephone number:**
 For Chemical Emergency Spill Leak Fire Exposure or Accident
 Call CHEMTREC Day or Night: DOMESTIC NORTH AMERICA 800-424-9300
 International, call +49 621 60 43 333

2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS08 Health hazard

Carc. 1A H350 May cause cancer. Route of exposure: Inhalation.

STOT RE 1 H372 Causes damage to organs through prolonged or repeated exposure.

-
- **Label elements**
 - **GHS label elements**
 The product is classified and labeled according to the Globally Harmonized System (GHS).
 - **Hazard pictograms**



GHS08

- **Signal word** Danger
- **Hazard-determining components of labeling:**
 Quartz (crystalline silica)
 Titanium dioxide
- **Hazard statements**
 May cause cancer. Route of exposure: Inhalation.
 Causes damage to organs through prolonged or repeated exposure.
- **Precautionary statements**
 Do not handle until all safety precautions have been read and understood.
 Wear protective gloves / eye protection.

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Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Information pertaining to particular dangers for man and environment:**
- **NFPA ratings (scale 0 - 4)**



Health = 1
Flammability = 0
Reactivity = 0

- **HMIS-ratings (scale 0 - 4)**



Health = *0
Flammability = 0
Reactivity = 0

- **Other hazards**

NFPA Rating Scale: 0 = Minimal; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe.

NFPA is the National Fire Protection Association.

HMIS Rating Scale: 0 = Minimal; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe.

HMIS®, the Hazardous Materials Identification System, is a registered mark of the National Paint and Coatings Association (NPCA).

* Chronic health effect possible - inhalation of silica dust may cause lung injury/disease (silicosis). Take appropriate measures to avoid breathing dust. See sections 3, 8 and 11.

- **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

3 Composition/information on ingredients

- **Chemical characterization: Mixtures**

· **Description:** 3-Component Design Epoxy Mortar (Component C)

- **Hazardous ingredients:**

CAS: 14808-60-7	Quartz (crystalline silica)	Carc. 1A, H350; STOT RE 1, H372	25-50%
CAS: 13463-67-7	Titanium dioxide	Carc. 2, H351	5-<10%

- **Additional information:**

The exact percentages of the ingredients have been withheld by the manufacturer as trade secrets.

The amount of respirable crystalline silica is less than 0.1 %.

For the wording of the listed hazard phrases refer to section 16.

4 First-aid measures

- **Description of first aid measures**

· **General information:** No special measures required.

· **After inhalation:** Supply fresh air; consult doctor in case of complaints.

· **After skin contact:** Immediately wash with water and soap and rinse thoroughly.

· **After eye contact:**

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

Call a doctor.

· **After swallowing:** Do not induce vomiting; immediately call for medical help.

- **Information for doctor:**

· **Most important symptoms and effects, both acute and delayed** No further relevant information available.

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

Also observe the safety data sheet of component A.

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Also observe SDS of component B.

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5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
CO₂ extinguishing 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** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Wear dust mask.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:** Pick up mechanically.
- **Reference to other sections**
No dangerous substances are released.
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.
- **Protective Action Criteria for Chemicals**

· PAC-1:

CAS: 14808-60-7	Quartz (crystalline silica)	0.075 mg/m ³
CAS: 13463-67-7	Titanium dioxide	30 mg/m ³

· PAC-2:

CAS: 14808-60-7	Quartz (crystalline silica)	33 mg/m ³
CAS: 13463-67-7	Titanium dioxide	330 mg/m ³

· PAC-3:

CAS: 14808-60-7	Quartz (crystalline silica)	200 mg/m ³
CAS: 13463-67-7	Titanium dioxide	2,000 mg/m ³

7 Handling and storage

- **Handling:**
- **Precautions for safe handling**
Prevent formation of dust.
Avoid contact with the eyes and skin.
Wash hands before breaks and at the end of work.
- **Information about protection against explosions and fires:** 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:**
Store in dry conditions.
Protect from humidity and water.
- **Specific end use(s)** No further relevant information available.

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8 Exposure controls/personal protection

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

· **Control parameters**

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

CAS: 14808-60-7 Quartz (crystalline silica)

PEL	Long-term value: 0.05* mg/m ³ *resp. dust; 30mg/m ³ /%SiO ₂ +2
REL	Long-term value: 0.05* mg/m ³ *respirable dust; See Pocket Guide App. A
TLV	Long-term value: 0.025* mg/m ³ *respirable particulate matter, A2

CAS: 13463-67-7 Titanium dioxide

PEL	Long-term value: 15* mg/m ³ *total dust
REL	See Pocket Guide App. A
TLV	Long-term value: (10) NIC-0.2* NIC-2.5** mg/m ³ NIC: resp. fraction, *nanoscale, **finescale, A3

· **Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

Avoid contact with the eyes and skin.

Also observe the safety data sheet of component A.

Also observe the SDS of component B.

Wash hands before breaks and at the end of work.

· **Respiratory protection:**

Not required.

When mixing wear suitable NIOSH-approved dust respirator.

· **Protection of hands:**



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

· **Material of gloves**

Butyl rubber, BR

Nitrile rubber, NBR

Recommended thickness of the material: ≥ 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.

· **Eye protection:**



Safety glasses

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9 Physical and chemical properties

· Information on basic physical and chemical properties	
· General Information	
· Appearance:	
Form:	Solid
Color:	White
· Odor:	Odorless
· Odor threshold:	Not determined.
· pH-value at 20 °C (68 °F):	7
· Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.
· Flash point:	Not applicable.
· Flammability (solid, gaseous):	Not determined.
· Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapor pressure:	Not applicable.
· Density:	Not determined.
· Relative density	Not determined.
· Vapor density	Not applicable.
· Evaporation rate	Not applicable.
· Solubility in / Miscibility with	
Water:	Insoluble.
· Partition coefficient (n-octanol/water): Not determined.	
· Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
· Other information	No further relevant information available.

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **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.

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11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **Specific symptoms in biological assay:**
- **Primary route(s) of entry:** Inhalation, skin contact, eye contact, ingestion.

- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritant effect.
- **Sensitization:** No sensitizing effects known.

- **Subacute to chronic toxicity:**

The amount of respirable crystalline silica is less than 0.1 %.

Respirable crystalline silica (quartz) may cause a severe lung disease named silicosis. Symptoms of silicosis may be a shortness of breath, fever or cough. Silicosis is reported to increase the risk of carcinogenicity caused by continuous inhalation of respirable crystalline silica. Though the product itself contains less than 0.1% of respirable crystalline silica, respirable silica may be generated from working procedures such as grinding e.g. In general, inhalation of silica dust should be avoided. Therefore, for your own safety wear a suitable NIOSH-approved respirator in all occasions when handling of the product generates dust.

- **Additional toxicological information:**

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

CAS: 14808-60-7	Quartz (crystalline silica)	I
CAS: 13463-67-7	Titanium dioxide	2B

- **NTP (National Toxicology Program)**

CAS: 14808-60-7	Quartz (crystalline silica)	K
-----------------	-----------------------------	---

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
Carc. 1A

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior 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:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**
Do not allow product to reach sewage system.
Disposal should be in accordance with local, state or national legislation.

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- **Uncleaned packagings:**
- **Recommendation:** Empty paper packaging is recyclable.

14 Transport information

· **DOT, ADR, ADN, IMDG, IATA** Void

· **UN proper shipping name** -
 · **DOT, ADR, ADN, IMDG, IATA** Void

· **DOT, ADN, IMDG, IATA**
 · **Class** Void
 · **DOT, IMDG, IATA** Void

· **Environmental hazards:**
 · **Marine pollutant:** No

· **Special precautions for user** Not applicable.· **Transport/Additional information:** Not regulated as hazardous material according to the above specifications.· **UN "Model Regulation":** Void

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **SARA (Superfund Amendments and Reauthorization Act)**

· **EPCRA Section 302 (Extremely Hazardous Substances):**

None of the ingredient is listed.

· **SARA Title III Section 313 (Toxic Release Inventory - TRI):**

None of the ingredients is listed.

· **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

All components have the value ACTIVE.

· **Hazardous Air Pollutants**

None of the ingredients is listed.

· **Proposition 65 (California)**· **Chemicals known to cause cancer:**

Titanium dioxide (airborne, unbound particles of respirable size) is classified as a substance known to the State of California to be a carcinogen.

CAS: 14808-60-7 Quartz (crystalline silica)

CAS: 13463-67-7 Titanium dioxide

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

· **Carcinogenicity categories**· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

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Safety Data Sheet

acc. to OSHA HCS

Printing date 03/15/2022

Version No. 1

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Trade name: UZIN XtraGuard Comp. C

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· TLV (Threshold Limit Value)		
CAS: 14808-60-7	Quartz (crystalline silica)	A2
CAS: 13463-67-7	Titanium dioxide	A4
· NIOSH-Ca (National Institute for Occupational Safety and Health)		
CAS: 14808-60-7	Quartz (crystalline silica)	
CAS: 13463-67-7	Titanium dioxide	

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms


GHS08

· Signal word Danger
· Hazard-determining components of labeling:

Quartz (crystalline silica)

Titanium dioxide

· Hazard statements

May cause cancer. Route of exposure: Inhalation.

Causes damage to organs through prolonged or repeated exposure.

· Precautionary statements

Do not handle until all safety precautions have been read and understood.

Wear protective gloves / eye protection.

Dispose of contents/container in accordance with local/regional/national/international regulations.

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.

· Contact:

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· 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

DOT: US Department of Transportation

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)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Carc. 1A: Carcinogenicity – Category 1A

Carc. 2: Carcinogenicity – Category 2

STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1