

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 10.08.2010

Version No. 2

Revision: 10.08.2010

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

- **Product details**

- **Trade name:** UZIN KR 416 Comp. A

- **Application of the substance / the preparation** 2-Component Poured Resin Repair (Component A)

- **Manufacturer/Supplier:**

Uzin Ltd.

Canute Point, Tachbrook Park Drive

Tachbrook Park, Leamington Spa, Warwickshire, CV34 6RH

Telephone 01926 436 700

Telefax 01926 881 893

Email info@uzin.co.uk

- **Further information obtainable from:**

Product safety department

email: msds.info@uzin-utz.com

- **Information in case of emergency:**

Medical emergencies: +49 30 30 686 790

Transportation emergencies: +49 621 60 43 333

2 Hazards identification

- **Hazard description:**



Xi Irritant

F Highly flammable

- **Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

R 11 Highly flammable.

R 18 In use, may form flammable/explosive vapour-air mixture.

R 37/38 Irritating to respiratory system and skin.

R 43 May cause sensitisation by skin contact.

3 Composition/information on ingredients

- **Chemical characterization**

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

- **Dangerous components:**

CAS: 80-62-6	methyl methacrylate	Xi, F; R 11-37/38-43	50-75%
EINECS: 201-297-1			

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

4 First-aid measures

- **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:** Rinse opened eye for several minutes under running water. Then consult a doctor.

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

5 Fire-fighting measures

- **Suitable extinguishing agents:**

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

- **For safety reasons unsuitable extinguishing agents:** Water with full jet

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- **Special hazards caused by the substance, its products of combustion or resulting gases:**
Can form explosive gas-air mixtures.
- **Protective equipment:** Mouth respiratory protective device.

6 Accidental release measures

- **Person-related safety precautions:**
Wear protective equipment. Keep unprotected persons away.
Keep away from ignition sources.
Ensure adequate ventilation
- **Measures for environmental protection:** Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.

7 Handling and storage

- **Handling:**
- **Information for safe handling:**
Immediately remove all soiled and contaminated clothing
Wear suitable protective clothing, gloves and eye/face protection.
Keep away from foodstuffs, beverages and feed.
Avoid contact with the eyes and skin.
Do not inhale gases / fumes / aerosols.
Wash hands before breaks and at the end of work.
- **Information about fire - and explosion protection:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Store in cool, dry conditions in well sealed receptacles.
Protect from heat and direct sunlight.

8 Exposure controls/personal protection

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

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

80-62-6 methyl methacrylate	
WEL	Short-term value: 416 mg/m ³ , 100 ppm Long-term value: 208 mg/m ³ , 50 ppm

- **Personal protective equipment:**
- **General protective and hygienic measures:**
Immediately remove all soiled and contaminated clothing
Wear suitable protective clothing, gloves and eye/face protection.
Keep away from foodstuffs, beverages and feed.
Avoid contact with the eyes and skin.
Do not inhale gases / fumes / aerosols.
Wash hands before breaks and at the end of work.

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· **Respiratory protection:**

Not necessary in well ventilated areas or areas with local exhaust ventilation (e.g. ex-protected ventilation / evacuation equipment).

In case of prolonged exposition in poorly ventilated areas, e.g. in closed rooms, use ambient air-independent breathing apparatus.

· **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

· **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:**



Tightly sealed goggles

9 Physical and chemical properties

· **General Information**

Form:	Fluid
Colour:	White
Odour:	Specific type (methylmethacrylate)

· **Change in condition**

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: Undetermined.

· **Flash point:** 10°C

· **Ignition temperature:** 430°C

· **Self-igniting:** Product is not selfigniting.

· **Danger of explosion:** In use, may form flammable/explosive vapour-air mixture.

· **Explosion limits:**

Lower: 2.1 Vol %

Upper: 12.5 Vol %

· **Vapour pressure at 20°C:** 47 hPa

· **Density at 20°C:** 1 g/cm³

· **Solubility in / Miscibility with**

water: Not miscible or difficult to mix.

· **Viscosity:**

Kinematic at 20°C: 33 s (ISO 6 mm)

10 Stability and reactivity

· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

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- **Materials to be avoided:**
- **Dangerous reactions** Reacts with peroxides and other radical forming substances.
- **Dangerous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Acute toxicity:**

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

80-62-6 methyl methacrylate

Oral	LD50	7872 mg/kg (rat)
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- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** No irritant effect.
- **Sensitization:** Sensitization possible through skin contact.
- **Additional toxicological information:**
Also observe the safety data sheet of component B.
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
Irritant

12 Ecological information

- **Additional ecological information:**
- **General notes:** Do not allow product to reach ground water, water course or sewage system.

13 Disposal considerations

- **Product:**
- **Recommendation**
Do not allow product to reach sewage system.
Mix both product components, allow to harden, then dispose of as construction waste.
- **Uncleaned packaging:**
- **Recommendation:**
Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

14 Transport information

- **Land transport ADR/RID (cross-border)**



- **ADR/RID class:** 3 Flammable liquids.
- **Danger code (Kemler):** 33
- **UN-Number:** 1133
- **Packaging group:** III
- **Hazard label:** 3
- **Description of goods:** 1133 ADHESIVES, special provision 640H

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· Tunnel restriction code D/E

· Maritime transport IMDG:



- **IMDG Class:** 3
- **UN Number:** 1133
- **Label** 3
- **Packaging group:** III
- **EMS Number:** F-E,S-E
- **Marine pollutant:** No
- **Proper shipping name:** ADHESIVES

· Air transport ICAO-TI and IATA-DGR:



- **ICAO/IATA Class:** 3
- **UN/ID Number:** 1133
- **Label** 3
- **Packaging group:** III
- **Proper shipping name:** ADHESIVES

15 Regulatory information

- **Labelling according to EU guidelines:**
The product has been classified and marked in accordance with EU Directives.
- **Code letter and hazard designation of product:**
Xi Irritant
F Highly flammable
- **Hazard-determining components of labelling:**
methyl methacrylate
- **Risk phrases:**
 - 11 Highly flammable.
 - 18 In use, may form flammable/explosive vapour-air mixture.
 - 37/38 Irritating to respiratory system and skin.
 - 43 May cause sensitisation by skin contact.
- **Safety phrases:**
 - 16 Keep away from sources of ignition - No smoking.
 - 23 Do not breathe vapour.
 - 24/25 Avoid contact with skin and eyes.
 - 37 Wear suitable gloves.
 - 51 Use only in well-ventilated areas.

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 R-phrases**
 - 11 Highly flammable.
 - 37/38 Irritating to respiratory system and skin.

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43 May cause sensitisation by skin contact.

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

· **Contact:**

Dr. M. Zieger, phone +49 (0)731 4097 207

E-Mail: msds.info@uzin-utz.com

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

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- **Product details**

- **Trade name:** UZIN KR 416 Comp. B

- **Application of the substance / the preparation** 2-Component Poured Resin Repair (Component B)

- **Manufacturer/Supplier:**

Uzin Ltd.

Canute Point, Tachbrook Park Drive

Tachbrook Park, Leamington Spa, Warwickshire, CV34 6RH

Telephone 01926 436 700

Telefax 01926 881 893

Email info@uzin.co.uk

- **Further information obtainable from:**

Product safety department

email: msds.info@uzin-utz.com

- **Information in case of emergency:**

Medical emergencies: +49 30 30 686 790

Transportation emergencies: +49 621 60 43 333

2 Hazards identification

- **Hazard description:**



Xi Irritant

O Oxidising

- **Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

R 7 May cause fire.

R 36 Irritating to eyes.

R 43 May cause sensitisation by skin contact.

3 Composition/information on ingredients

- **Chemical characterization**

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

- **Dangerous components:**

CAS: 94-36-0	dibenzoyl peroxide	Xi, E, O; R 3-7-36-43	10 - <25%
EINECS: 202-327-6			

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

4 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:** Rinse opened eye for several minutes under running water. Then consult a doctor.

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

5 Fire-fighting measures

- **Suitable extinguishing agents:**

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

- **For safety reasons unsuitable extinguishing agents:** Water with full jet

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Trade name: **UZIN KR 416 Comp. B**

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- **Protective equipment:** Mouth respiratory protective device.

6 Accidental release measures

- **Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.
- **Measures for environmental protection:** Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:**
 - Dispose contaminated material as waste according to item 13.
 - Ensure adequate ventilation.
- **Additional information:** Also observe the safety data sheet of component A.

7 Handling and storage

- **Handling:**
- **Information for safe handling:**
 - Immediately remove all soiled and contaminated clothing
 - Wear suitable protective clothing, gloves and eye/face protection.
 - Avoid contact with the eyes and skin.
 - Do not inhale gases / fumes / aerosols.
 - Wash hands before breaks and at the end of work.
- **Information about fire - and explosion protection:** Substance/product is oxidizing when dry.
- **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 cool, dry conditions in well sealed receptacles.
 - Protect from heat and direct sunlight.

8 Exposure controls/personal protection

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

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

94-36-0 dibenzoyl peroxide

WEL Long-term value: 5 mg/m ³
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- **Personal protective equipment:**
- **General protective and hygienic measures:**
 - Also observe the safety data sheet of component A.
 - Immediately remove all soiled and contaminated clothing
 - Wear suitable protective clothing, gloves and eye/face protection.
 - Avoid contact with the eyes and skin.
 - Do not inhale gases / fumes / aerosols.
 - Wash hands before breaks and at the end of work.
- **Respiratory protection:** Not necessary if room is well-ventilated.
- **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

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Trade name: UZIN KR 416 Comp. B

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- **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:**



Tightly sealed goggles

9 Physical and chemical properties

· General Information

Form:	Solid
Colour:	White
Odour:	Odourless

· Change in condition

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

· **Flash point:** Not applicable.

· **Flammability (solid, gaseous):** May cause fire.

· Ignition temperature:

Decomposition temperature: ca. 80°C

· **Self-igniting:** Product is not selfigniting.

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

· **Vapour pressure at 20°C:** 1 hPa

· **Density at 20°C:** 1.95 g/cm³

· **Solubility in / Miscibility with water:** Insoluble.

· Solvent content:

Solids content: 20.0 %

10 Stability and reactivity

· Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.
 Thermal decomposition above 80 °C.

· Materials to be avoided:

· **Dangerous reactions** Reacts with reducing agents.

· **Dangerous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

· Acute toxicity:

· Primary irritant effect:

· **on the skin:** No irritant effect.

· **on the eye:** Irritating effect.

· **Sensitization:** Sensitization possible through skin contact.

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- **Additional toxicological information:**
However, also observe the safety data sheet of component A.
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
Irritant

12 Ecological information

- **Additional ecological information:**
- **General notes:** Do not allow product to reach ground water, water course or sewage system.

13 Disposal considerations

- **Product:**
- **Recommendation**
Do not allow product to reach sewage system.
Mix both product components, allow to harden, then dispose of as construction waste.
- **Uncleaned packaging:**
- **Recommendation:**
Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

14 Transport information

- **Land transport ADR/RID (cross-border)**
- **ADR/RID class:** -

- **Maritime transport IMDG:**
- **IMDG Class:** -
- **Marine pollutant:** No

- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** -

- **Transport/Additional information:** Not dangerous according to the above specifications.

15 Regulatory information

- **Labelling according to EU guidelines:**
The product has been classified and marked in accordance with EU Directives.
- **Code letter and hazard designation of product:**
Xi Irritant
O Oxidising
- **Hazard-determining components of labelling:**
dibenzoyl peroxide
- **Risk phrases:**
7 May cause fire.
36 Irritating to eyes.
43 May cause sensitisation by skin contact.
- **Safety phrases:**
3/7 Keep container tightly closed in a cool place.
14 Keep away from acids, reducing agents and flammable materials.
27 Take off immediately all contaminated clothing.

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36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

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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 R-phrases

- 3 Extreme risk of explosion by shock, friction, fire or other sources of ignition.
- 36 Irritating to eyes.
- 43 May cause sensitisation by skin contact.
- 7 May cause fire.

· Department issuing MSDS: Product safety department**· Contact:**

Dr. M. Zieger, phone +49 (0)731 4097 207
E-Mail: msds.info@uzin-utz.com

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