

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 MK 37

- **Application of the substance / the preparation** 1-Component PU Spot-Fix Adhesive

- **Manufacturer/Supplier:**

Uzin Ltd.

Canute Point, Tachbrook Park Drive

Tachbrook Park, Leamington Spa, Warwickshire, CV34 6RH

Telephone 01926 436 700

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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:**



Xn Harmful

- **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 20 Harmful by inhalation.

R 36/37/38 Irritating to eyes, respiratory system and skin.

R 40 Limited evidence of a carcinogenic effect.

R 42/43 May cause sensitisation by inhalation and skin contact.

R 48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

Contains isocyanates. See information supplied by the manufacturer

3 Composition/information on ingredients

- **Chemical characterization**

- **Description:**

1-component PU-Adhesive

Mixture of substances listed below with nonhazardous additions.

- **Dangerous components:**

9016-87-9	diphenylmethanediisocyanate, isomeres and homologues Carc. Cat. 3; Xn, Xi; R 20-36/37/38-40-42/43-48/20	75-100%
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- **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.

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.

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

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

6 Accidental release measures

- **Person-related safety precautions:**
Wear protective equipment. Keep unprotected persons away.
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.
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.

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:**

9016-87-9 diphenylmethanediisocyanate, isomeres and homologues

WEL	Short-term value: 0.07 mg/m ³ Long-term value: 0.02 mg/m ³ Sen; as -NCO
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- **Personal protective equipment:**
- **General protective and hygienic measures:**
Immediately remove all soiled and contaminated clothing
Wear suitable protective clothing, gloves and eye/face protection.

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*Keep away from foodstuffs, beverages and feed.**Avoid contact with the eyes and skin.**Persons with a history of asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this preparation is used.**Wash hands before breaks and at the end of work.*

- **Respiratory protection:** Not necessary 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*

- **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:	<i>Fluid</i>
Colour:	<i>Brown</i>
Odour:	<i>Light</i>

· Change in condition

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

· Flash point:	<i>> 200°C</i>
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· Ignition temperature:	<i>> 400°C</i>
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· Self-igniting:	<i>Product is not selfigniting.</i>
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· Danger of explosion:	<i>Product does not present an explosion hazard.</i>
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· Vapour pressure at 20°C:	<i>< 0.0001 hPa</i>
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· Density at 20°C:	<i>1.1 g/cm³</i>
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· Solubility in / Miscibility with water:	<i>Not miscible or difficult to mix.</i>
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· Viscosity:	
Dynamic at 20°C:	<i>7000 mPas</i>

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**

From approx. 260°C, polymerization and separation of CO₂

- **Materials to be avoided:**

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

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- **Dangerous 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.

- **Dangerous 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.

11 Toxicological information

- **Acute toxicity:**

- **Primary irritant effect:**

- **on the skin:** Irritant to skin and mucous membranes.

- **on the eye:** Irritating effect.

- **Sensitization:**

Sensitization possible through inhalation.

Sensitization possible through skin contact.

- **Additional toxicological information:**

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:

Harmful

Irritant

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.

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.

Let product residues harden in open container, 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

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

- **Transport/Additional information:**
Not dangerous according to the above specifications.
Avoid heating to above 40°C and cooling to below 10°C.

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:**
Xn Harmful
- **Hazard-determining components of labelling:**
diphenylmethanediisocyanate, isomeres and homologues
- **Risk phrases:**
 - 20 Harmful by inhalation.
 - 36/37/38 Irritating to eyes, respiratory system and skin.
 - 40 Limited evidence of a carcinogenic effect.
 - 42/43 May cause sensitisation by inhalation and skin contact.
 - 48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.
- **Safety phrases:**
 - 24/25 Avoid contact with skin and eyes.
 - 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 - 27/28 After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap.
 - 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
 - 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
- **Special labelling of certain preparations:**
Contains isocyanates. See information supplied by the manufacturer

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**
 - 20 Harmful by inhalation.
 - 36/37/38 Irritating to eyes, respiratory system and skin.
 - 40 Limited evidence of a carcinogenic effect.
 - 42/43 May cause sensitisation by inhalation and skin contact.
 - 48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.
- **Department issuing MSDS:** Product safety department
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- *** Data compared to the previous version altered.**