

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 25.08.2008

Revision: 25.08.2008

* 1 Identification of substance:

· **Product details:**

· **Trade name:** Jutadach Super Mastic

· **Application of the substance / the preparation** Adhesives

· **Supplier:** Juta a.s. Dukelska 417, 544 15 Dvur
Kralove n.L., Czech Republic Tel.:
++420 499 314 211

· **Informing department:** M. Fikar (++420 499 314 216)
E-Mail: fikar@juta.cz.

· **Emergency information: Toxicological Information Centre Prague**
++420 224 919 293, ++420 224 915 402

* 2 Hazards identification

· **Hazard designation:**



Xn Harmful

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

R 20 Harmful by inhalation.

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

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

Contains isocyanates. See information supplied by the manufacturer

· **Classification system**

The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

* 3 Composition/information on ingredients

· **Chemical characterization**

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

· **Dangerous components:**

CAS: 101-68-8	diphenylmethane-4,4'-di-isocyanate	10-25%
EINECS: 202-966-0	Xn, Xi; R 20-36/37/38-42/43	

CAS: 108-32-7	propylene carbonate	2.5-5%
EINECS: 203-572-1	Xi; R 36	

CAS: 77-58-7	dibutyltin dilaurate	< 0.25%
EINECS: 201-039-8	Xn, Xi, N; R 36/38-48/22-50/53	

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

4 First aid measures

· **General information**

Take affected persons into the open air.

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. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness bring patient into stable side position for transport.

· **After skin contact**

Treat affected skin portions with cotton wool or cellulose. Then wash and rinse thoroughly with water and a mild cleaning agent.

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- **After eye contact** *Rinse opened eye for several minutes under running water. Then consult doctor.*
- **After swallowing** *Do not induce vomiting; instantly call for medical help.*

5 Fire fighting measures

- **Suitable extinguishing agents** *CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.*
- **Special hazards caused by the material, its products of combustion or flue gases:** *Can be released in case of fire
Carbon monoxide (CO)
Nitrogen oxides (NO_x)
Hydrogen cyanide (HCN)*
- **Protective equipment:** *Wear self-contained breathing apparatus.
Wear full protective suit.*

6 Accidental release measures

- **Person-related safety precautions:** *Ensure adequate ventilation*
- **Measures for environmental protection:** *Do not allow product to reach sewage system or water bodies.
Prevent material from reaching sewage system, holes and cellars.*
- **Measures for cleaning/collecting:** *Collect mechanically.
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
After approx. one hour transfer to waste container and do not seal (evolution of CO₂!). Keep damp in a safe ventilated area for several days.*

7 Handling and storage

- **Handling**
- **Information for safe handling:** *Ensure good ventilation/exhaustion at the workplace.
Avoid product temperatures above 50 °C, and below 10 °C.
Exhaust ventilation necessary if product is sprayed or raw material temperatures exceed 40 °C.*
- **Information about protection against explosions and fires:** *No special measures required.*
- **Storage**
- **Requirements to be met by storerooms and containers:** *Store only in the original container.*
- **Information about storage in one common storage facility:** *Not required.*
- **Further information about storage conditions:** *Store under dry conditions.
Keep container tightly sealed.*

* 8 Exposure controls and personal protection

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

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Components with critical values that require monitoring at the workplace:

101-68-8 diphenylmethane-4,4'-di-isocyanateWEL Short-term value: 0.07 mg/m³Long-term value: 0.02 mg/m³

Sen; as -NCO

77-58-7 dibutyltin dilaurateWEL Short-term value: 0.2 mg/m³Long-term value: 0.1 mg/m³

as Sn; Sk

- Additional information:** The lists that were valid during the compilation were used as basis.
The values are taken from literature.

Personal protective equipment**General protective and hygienic measures**

Avoid contact with the eyes and skin.

Keep away from foodstuffs, beverages and food.

Instantly remove any soiled and impregnated garments.

Wash hands during breaks and at the end of the work.

Breathing equipment:

Respiratory protection required in insufficiently ventilated working areas and during spraying. An air-fed mask, or for short periods of work, a combination of charcoal filter and particulate filter is recommended.

Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Material of gloves

Nitrile rubber, NBR

Recommended thickness of the material: ε 0.35 mm

Penetration time of glove material

Value for the permeation: Level 6 ; ε 480 min

The determined penetration times according to EN 374 part III are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

Eye protection:

Safety glasses

Body protection:

Protective work clothing.

9 Physical and chemical properties:
General Information

Form: Pasty
Colour: Black
Smell: Characteristic

Change in condition**Melting point/Melting range:** Not determined**Boiling point/Boiling range:** Not determined**Flash point:** 111°C**Self-inflammability:** Product is not selfigniting.**Danger of explosion:** Product is not explosive.**Density at 20°C** ca. 1.52 g/cm³**Solubility in / Miscibility with**

Water: Not miscible or difficult to mix
dynamic at 20°C: ca. 80000 mPas

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10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** To avoid thermal decomposition do not overheat. Polymerizes about 260 °C with evolution of CO₂.
- **Dangerous reactions** Exothermic reaction with amines, alcohols, acids and alkali. Reacts with water forming CO₂. Closed containers may rupture owing to increase of pressure.
- **Dangerous products of composition:** No dangerous decomposition products known

11 Toxicological information

- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:**
 - 101-68-8 diphenylmethane-4,4'-di-isocyanate
 - Oral LD50 >15000 mg/kg (rat)
 - Inhalative LC50/4 h 490 mg/l (rat)
- **Primary irritant effect:**
- **on the skin:** Irritant for skin and mucous membranes.
- **on the eye:** Irritant effect.
- **Sensitization:** Sensitization possible by skin contact. Sensitization possible by inhalation.
- **Additional toxicological information:** The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:
 - Harmful
 - Irritant
- **Sensitisation** May cause sensitisation by inhalation and skin contact.

12 Ecological information:

- **General notes:** Water hazard class 1 (Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system. The product reacts with water at the interface forming CO₂ and a solid insoluble product with high melting point (polyurea). This reaction is accelerated by surfactants (e.g. detergents) or by watersoluble solvents.

13 Disposal considerations

- **Product:**
- **Recommendation**



 Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· **European waste catalogue**

08 00 00 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS

08 04 00 wastes from MFSU of adhesives and sealants (including waterproofing products)

08 04 09 waste adhesives and sealants containing organic solvents or other dangerous substances

· **Uncleaned packagings:**

- **Recommendation:** Packagings that cannot be cleaned are to be disposed of in the same manner as the product.
15 00 00: WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED

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15 01 00: packaging (including separately collected municipal packaging waste)

15 01 10: packaging containing residues of or contaminated by dangerous substances

14 Transport information

- Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)

- ADR/RID-GGVS/E Class: -

- Maritime transport IMDG/GGVSea:

- IMDG/GGVSea 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

- Designation according to EC guidelines:

The product has been classified and labelled in accordance with EC Directives / Ordinance on Hazardous Materials (GefStoffV)
Observe the normal safety regulations when handling chemicals

- Code letter and hazard designation of product:

Xn Harmful

- Hazard-determining components of labelling:

diphenylmethane-4,4'-di-isocyanate

- Risk phrases:

20 Harmful by inhalation.
36/37/38 Irritating to eyes, respiratory system and skin.
42/43 May cause sensitisation by inhalation and skin contact.

- Safety phrases:

23 Do not breathe fumes.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
35 This material and its container must be disposed of in a safe way.
36/37 Wear suitable protective clothing and gloves.
45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
51 Use only in well-ventilated areas.

- Special designation of certain preparations:

Contains isocyanates. See information supplied by the manufacturer

- National regulations

- Technical instructions (air):

- Class Share in %

- I 10-25
- NK 2,5-5

- Water hazard class:

Water hazard class 1 (Self-assessment): slightly hazardous for water.

* 16 Other information:

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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· Relevant R-phrases	20	<i>Harmful by inhalation.</i>
	36	<i>Irritating to eyes.</i>
	36/37/38	<i>Irritating to eyes, respiratory system and skin.</i>
	36/38	<i>Irritating to eyes and skin.</i>
	42/43	<i>May cause sensitisation by inhalation and skin contact.</i>
	48/22	<i>Harmful: danger of serious damage to health by prolonged exposure if swallowed.</i>
	50/53	<i>Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</i>