

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 18.05.2015

Version No. 5

Revision: 18.05.2015

**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

- **1.1 Product identifier**
- **Trade name:** DD 2000 Comp. A
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Sector of Use**  
 SU19 Building and construction work  
 SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)  
 For professional use only.
- **Product category** PC9a Coatings and paints, thinners, paint removers
- **Application of the substance / the mixture** Solvent-based, 2-component PU parquet seal, component A
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
 PALLMANN GmbH  
 Im Kreuz 6  
 D-97076 Würzburg  
 Tel. +49 (0)931-27964-0  
 Fax +49 (0)931-27964-50
- **Further information obtainable from:**  
 Products Development Lab  
 E-Mail: [msds.info@uzin-utz.com](mailto:msds.info@uzin-utz.com)
- **1.4 Emergency telephone number:**  
 Medical emergencies: +49 30 30 686 790  
 Transportation emergencies: +49 621 60 43 333

**SECTION 2: Hazards identification**

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS02 flame

Flam. Liq. 3      H226      Flammable liquid and vapour.



GHS07

STOT SE 3      H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.

Aquatic Chronic 3 H412      Harmful to aquatic life with long lasting effects.

- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**



Xi; Irritant

R37:      Irritating to respiratory system.

R10-52/53-66-67:      Flammable. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.

- **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.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
 The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms** GHS02, GHS07

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**Trade name: DD 2000 Comp. A**

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- **Signal word** Warning
- **Hazard-determining components of labelling:**  
Solvent naphtha (petroleum), light arom.  
n-butyl acetate
- **Hazard statements**  
H226 Flammable liquid and vapour.  
H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.  
H412 Harmful to aquatic life with long lasting effects.
- **Precautionary statements**  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P261 Avoid breathing vapours.  
P280 Wear protective gloves / eye protection.  
P273 Avoid release to the environment.  
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P312 Call a POISON CENTER/doctor if you feel unwell.  
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
- **Additional information:**  
EUH066 Repeated exposure may cause skin dryness or cracking.
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

- **3.2 Chemical characterisation: Mixtures**
- **Description:** Solvent mixture with additives

· **Dangerous components:**

CAS: 123-86-4 EINECS: 204-658-1 Reg.nr.: 01-2119485493-29	n-butyl acetate R10-66-67 ⚠ Flam. Liq. 3, H226; ⚠ STOT SE 3, H336	25-50%
CAS: 64742-95-6 EINECS: 265-199-0 Reg.nr.: 01-2119455851-35	Solvent naphtha (petroleum), light arom. ☒ Xn R65; ☒ Xi R37; ☒ N R51/53 R10-66-67 ⚠ Flam. Liq. 3, H226; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Chronic 2, H411; ⚠ STOT SE 3, H335-H336	20 - <25%
CAS: 8042-47-5 Reg.nr.: 01-2119487078-27	White mineral oil (petroleum) ☒ Xn R65 ⚠ Asp. Tox. 1, H304	1 - <3%

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

### SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **After inhalation:**  
Supply fresh air; consult doctor in case of complaints.  
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **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.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.

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- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### **SECTION 5: Firefighting measures**

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub> powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2 Special hazards arising from the substance or mixture** Can form explosive gas-air mixtures.
- **5.3 Advice for firefighters**
- **Protective equipment:** Mouth respiratory protective device.

### **SECTION 6: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.  
Keep away from ignition sources.  
Ensure adequate ventilation
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 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.  
Ensure adequate ventilation.
- **6.4 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.

### **SECTION 7: Handling and storage**

- **7.1 Precautions for safe handling**  
Wear suitable protective clothing, gloves and eye/face protection.  
Immediately remove all soiled and contaminated clothing  
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.
- **7.2 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 cool, dry conditions in well sealed receptacles.  
Protect from heat and direct sunlight.
- **7.3 Specific end use(s)** No further relevant information available.

### **SECTION 8: Exposure controls/personal protection**

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

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## · 8.1 Control parameters

· **Ingredients with limit values that require monitoring at the workplace:****123-86-4 n-butyl acetate**

WEL	Short-term value: 966 mg/m <sup>3</sup> , 200 ppm
	Long-term value: 724 mg/m <sup>3</sup> , 150 ppm

## · 8.2 Exposure controls

· **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.

· **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.  
In case of spray application appropriate, certified respirators (e.g. half-mask with filter A1P2 or supplied air respirators) must be worn.

· **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:  $\geq 0.5$  mm

· **Penetration time of glove material**

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**

Tightly sealed goggles

Use safety eyewear designed to protect against splash of liquids.

## SECTION 9: Physical and chemical properties

## · 9.1 Information on basic physical and chemical properties

· **General Information**· **Appearance:**

<b>Form:</b>	Fluid
<b>Colour:</b>	Colourless
<b>Odour:</b>	Solvent-like

· **Change in condition**

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

· **Flash point:** 35 °C

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· <b>Ignition temperature:</b>	>300 °C
· <b>Self-igniting:</b>	Product is not selfigniting.
· <b>Danger of explosion:</b>	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· <b>Explosion limits:</b>	
Lower:	0.7 Vol %
Upper:	7.5 Vol %
· <b>Vapour pressure at 20 °C:</b>	10.7 hPa
· <b>Density at 20 °C:</b>	0.98 g/cm <sup>3</sup>
· <b>Solubility in / Miscibility with water:</b>	Not miscible or difficult to mix.
· <b>Viscosity:</b>	
Kinematic at 20 °C:	35 s (DIN 53211/4)
· <b>9.2 Other information</b>	No further relevant information available.

### SECTION 10: Stability and reactivity

- **10.1 Reactivity**
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:**

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

**64742-95-6 Solvent naphtha (petroleum), light arom.**

Oral	LD50	>6800 mg/kg (rat)
Dermal	LD50	>3400 mg/kg (rabbit)
Inhalative	LC50/4 h	21 mg/l (rat)

- **Primary irritant effect:**
- **on the skin:** Slightly irritant effect may occur.
- **on the eye:** No irritant effect.
- **Sensitisation:** No sensitising effects known.

· **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:

Irritant

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin.

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### SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Harmful to fish
- **Additional ecological information:**
- **General notes:**  
Harmful to aquatic organisms  
Do not allow product to reach ground water, water course or sewage system.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

### SECTION 13: Disposal considerations

- **13.1 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.  
Disposal should be in accordance with local, state or national legislation.
- **Uncleaned packaging:**
- **Recommendation:**  
Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

### SECTION 14: Transport information

- |   |                                    |
|---|------------------------------------|
| · <b>14.1 UN-Number</b>   |                                    |
| · <b>ADR, IMDG, IATA</b>  | UN1263                             |
| · <b>14.2 UN proper shipping name</b>   |                                    |
| · <b>ADR</b>  | 1263 PAINT, special provision 640E |
| · <b>IMDG</b>   | PAINT, MARINE POLLUTANT            |
| · <b>IATA</b>   | PAINT                              |
| · <b>14.3 Transport hazard class(es)</b>  |                                    |
| · <b>ADR, IATA</b>  |                                    |
|    |                                    |
| · <b>Class</b>  | 3 Flammable liquids.               |
| · <b>Label</b>  | 3                                  |
| · <b>IMDG</b>   |                                    |
|   |                                    |
| · <b>Class</b>  | 3 Flammable liquids.               |

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· <b>Label</b>	3
· <b>14.4 Packing group</b> · <b>ADR, IMDG, IATA</b>	III
· <b>14.5 Environmental hazards:</b> · <b>Marine pollutant:</b>	Symbol (fish and tree)
· <b>14.6 Special precautions for user</b> · <b>Danger code (Kemler):</b> · <b>EMS Number:</b>	Warning: Flammable liquids. 30 F-E,S-E
· <b>14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>ADR</b> · <b>Limited quantities (LQ)</b> · <b>Transport category</b> · <b>Tunnel restriction code</b>	5L 3 D/E
· <b>UN "Model Regulation":</b>	UN1263, PAINT, special provision 640E, 3, III

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**  
No further relevant information available.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**

- H226 Flammable liquid and vapour.
- H304 May be fatal if swallowed and enters airways.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H411 Toxic to aquatic life with long lasting effects.
- R10 Flammable.
- R37 Irritating to respiratory system.
- R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R65 Harmful: may cause lung damage if swallowed.
- R66 Repeated exposure may cause skin dryness or cracking.
- R67 Vapours may cause drowsiness and dizziness.

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

- **Contact:**

Dr. Kötte, phone +49 (0)931 27964-25  
E-Mail: msds.info@uzin-utz.com

- **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)  
ICAO: International Civil Aviation Organisation  
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
GHS: Globally Harmonised System of Classification and Labelling of Chemicals

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*EINECS: European Inventory of Existing Commercial Chemical Substances**ELINCS: European List of Notified Chemical Substances**CAS: Chemical Abstracts Service (division of the American Chemical Society)**LC50: Lethal concentration, 50 percent**LD50: Lethal dose, 50 percent**Flam. Liq. 3: Flammable liquids, Hazard Category 3**STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3**Asp. Tox. 1: Aspiration hazard, Hazard Category 1**Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2**Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3***· \* Data compared to the previous version altered.**

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

· **1.1 Product identifier**

· **Trade name:** DD 2000 Comp. B

· **1.2 Relevant identified uses of the substance or mixture and uses advised against**

· **Sector of Use**

SU19 Building and construction work

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)  
For professional use only.

· **Product category** PC9a Coatings and paints, thinners, paint removers

· **Application of the substance / the mixture** Solvent-based, 2-component PU parquet seal, component B

· **1.3 Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**

PALLMANN GmbH

Im Kreuz 6

D-97076 Würzburg

Tel. +49 (0)931-27964-0

Fax +49 (0)931-27964-50

· **Further information obtainable from:**

Products Development Lab

E-Mail: [msds.info@uzin-utz.com](mailto:msds.info@uzin-utz.com)

· **1.4 Emergency telephone number:**

Medical emergencies: +49 30 30 686 790

Transportation emergencies: +49 621 60 43 333

**SECTION 2: Hazards identification**

· **2.1 Classification of the substance or mixture**

· **Classification according to Regulation (EC) No 1272/2008**



GHS02 flame

Flam. Liq. 3 H226 Flammable liquid and vapour.



GHS08 health hazard

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.



GHS07

Acute Tox. 4 H332 Harmful if inhaled.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

· **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**



Xn; Harmful

R20: Harmful by inhalation.



Xn; Sensitising

R42/43: May cause sensitisation by inhalation and skin contact.

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**Xi; Irritant**

R36: Irritating to eyes.

R10-52/53: Flammable. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**· 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.

**· 2.2 Label elements****· Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

**· Hazard pictograms GHS02, GHS07, GHS08****· Signal word Danger****· Hazard-determining components of labelling:**

Prepolymer based on aromatic polyisocyanate  
xylene

m-tolylidene diisocyanate

ethylbenzene

**· Hazard statements**

H226 Flammable liquid and vapour.

H332 Harmful if inhaled.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

**· Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P284 In case of inadequate ventilation wear respiratory protection.

P261 Avoid breathing vapours.

P280 Wear protective gloves / eye protection.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

**· Additional information:**

EUH204 Contains isocyanates. May produce an allergic reaction.

**· 2.3 Other hazards****· Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

**SECTION 3: Composition/information on ingredients**

**· 3.2 Chemical characterisation: Mixtures**

· **Description:** Solvent mixture with additives

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· <b>Dangerous components:</b>		
CAS: 53317-61-6	Prepolymer based on aromatic polyisocyanate ☒ Xi R36; ☒ Xi R43 ⚠ Eye Irrit. 2, H319; Skin Sens. 1, H317	25-50%
CAS: 108-65-6 EINECS: 203-603-9 Reg.nr.: 01-2119475791-29	2-methoxy-1-methylethyl acetate R10 ⚠ Flam. Liq. 3, H226	25-50%
CAS: 1330-20-7 EINECS: 215-535-7 Reg.nr.: 01-2119486136-34	xylene ☒ Xn R20/21; ☒ Xi R38 R10 ⚠ Flam. Liq. 3, H226; ⚠ Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315	10-<12.5%
CAS: 64742-95-6 EINECS: 265-199-0 Reg.nr.: 01-2119455851-35	Solvent naphtha (petroleum), light arom. ☒ Xn R65; ☒ Xi R37; ☒ N R51/53 R10-66-67 ⚠ Flam. Liq. 3, H226; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Chronic 2, H411; ⚠ STOT SE 3, H335-H336	5 - <10%
CAS: 100-41-4 EINECS: 202-849-4 Reg.nr.: 01-2119489370-35	ethylbenzene ☒ Xn R20-48/20-65; ☒ F R11 ⚠ Flam. Liq. 2, H225; ⚠ STOT RE 2, H373; Asp. Tox. 1, H304; ⚠ Acute Tox. 4, H332	1 - <5%
CAS: 26471-62-5 EINECS: 247-722-4 Reg.nr.: 01-2119454791-34	m-tolyldiene diisocyanate ☒ T+ R26; ☒ Xn R40; ☒ Xn R42/43; ☒ Xi R36/37/38 R52/53 Carc. Cat. 3 ⚠ Acute Tox. 2, H330; ⚠ Resp. Sens. 1, H334; Carc. 2, H351; ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335; Aquatic Chronic 3, H412	< 0.5%

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

## SECTION 4: First aid measures

### · 4.1 Description of first aid measures

#### · **General information:**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

#### · **After inhalation:**

Supply fresh air; consult doctor in case of complaints.

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

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

#### · **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.

### · 4.2 Most important symptoms and effects, both acute and delayed

Allergic reactions

Asthma attacks

### · 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

## SECTION 5: Firefighting measures

### · 5.1 Extinguishing media

#### · **Suitable extinguishing agents:**

CO<sub>2</sub> 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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- **5.2 Special hazards arising from the substance or mixture** Can form explosive gas-air mixtures.
- **5.3 Advice for firefighters**
- **Protective equipment:** Mouth respiratory protective device.

**SECTION 6: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.  
Keep away from ignition sources.  
Ensure adequate ventilation
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 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.  
Ensure adequate ventilation.
- **6.4 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.

**SECTION 7: Handling and storage**

- **7.1 Precautions for safe handling**  
Wear suitable protective clothing, gloves and eye/face protection.  
Immediately remove all soiled and contaminated clothing  
Keep away from foodstuffs, beverages and feed.  
Avoid contact with the eyes and skin.  
Do not inhale gases / fumes / aerosols.  
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:**  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.
- **7.2 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 cool, dry conditions in well sealed receptacles.  
Protect from heat and direct sunlight.
- **7.3 Specific end use(s)** No further relevant information available.

**SECTION 8: Exposure controls/personal protection**

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

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

**108-65-6 2-methoxy-1-methylethyl acetate**

WEL	Short-term value: 548 mg/m <sup>3</sup> , 100 ppm
	Long-term value: 274 mg/m <sup>3</sup> , 50 ppm
Sk	

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**1330-20-7 xylene**

WEL Short-term value: 441 mg/m<sup>3</sup>, 100 ppm  
Long-term value: 220 mg/m<sup>3</sup>, 50 ppm  
Sk; BMGV

**100-41-4 ethylbenzene**

WEL Short-term value: 552 mg/m<sup>3</sup>, 125 ppm  
Long-term value: 441 mg/m<sup>3</sup>, 100 ppm  
Sk

**26471-62-5 m-tolyldiene diisocyanate**

WEL Short-term value: 0.07 mg/m<sup>3</sup>  
Long-term value: 0.02 mg/m<sup>3</sup>  
Sen; as -NCO

**· Ingredients with biological limit values:****1330-20-7 xylene**

BMGV 650 mmol/mol creatinine  
Medium: urine  
Sampling time: post shift  
Parameter: methyl hippuric acid

**· 8.2 Exposure controls****· 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.  
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 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.  
In case of spray application appropriate, certified respirators (e.g. half-mask with filter A1P2 or supplied air respirators) must be worn.  
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:  $\geq 0.5$  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:**

Tightly sealed goggles

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Use safety eyewear designed to protect against splash of liquids.

### SECTION 9: Physical and chemical properties

#### · 9.1 Information on basic physical and chemical properties

##### · General Information

##### · Appearance:

Form:	Fluid
Colour:	Dark brown
Odour:	Solvent-like

##### · Change in condition

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: Undetermined.

· Flash point: 40 °C

· Ignition temperature: &gt;300 °C

· Self-igniting: Product is not selfigniting.

· Danger of explosion: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

##### · Explosion limits:

Lower: 0.7 Vol %

Upper: 10.8 Vol %

· Vapour pressure at 20 °C: 6.7 hPa

· Density at 20 °C: 1.04 g/cm<sup>3</sup>

##### · Solubility in / Miscibility with water:

Not miscible or difficult to mix.

##### · Viscosity:

Kinematic at 20 °C: 20 s (DIN 53211/4)

· 9.2 Other information No further relevant information available.

### SECTION 10: Stability and reactivity

#### · 10.1 Reactivity

#### · 10.2 Chemical stability

#### · Thermal decomposition / conditions to be avoided:

From approx. 260 °C, polymerization and separation of CO<sub>2</sub>

#### · 10.3 Possibility of hazardous reactions

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.

· 10.4 Conditions to avoid No further relevant information available.

#### · 10.5 Incompatible materials:

Uncontrolled exothermic reactions occur with amines and alcohols.

During storage, avoid moisture contamination.

#### · 10.6 Hazardous decomposition products:

In a fire, hazardous decomposition products such as smoke, carbon monoxide, carbon dioxide, oxides of nitrogen, hydrogen cyanide, monomer isocyanates, amines and alcohols may be produced.

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### SECTION 11: Toxicological information

· **11.1 Information on toxicological effects**

· **Acute toxicity:**

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

**1330-20-7 xylene**

Oral	LD50	4300 mg/kg (rat)
Dermal	LD50	2000 mg/kg (rabbit)

**64742-95-6 Solvent naphtha (petroleum), light arom.**

Oral	LD50	>6800 mg/kg (rat)
Dermal	LD50	>3400 mg/kg (rabbit)
Inhalative	LC50/4 h	21 mg/l (rat)

· **Primary irritant effect:**

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

· **on the eye:** Irritating effect.

· **Sensitisation:**

Sensitisation possible through inhalation.

Sensitisation 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.

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin.

### SECTION 12: Ecological information

· **12.1 Toxicity**

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

· **12.2 Persistence and degradability** No further relevant information available.

· **12.3 Bioaccumulative potential** No further relevant information available.

· **12.4 Mobility in soil** No further relevant information available.

· **Ecotoxicological effects:**

· **Remark:** Harmful to fish

· **Additional ecological information:**

· **General notes:**

Harmful to aquatic organisms

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

· **12.5 Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

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

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### SECTION 13: Disposal considerations

· **13.1 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.  
Disposal should be in accordance with local, state or national legislation.

· **Uncleaned packaging:**

· **Recommendation:**

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

### SECTION 14: Transport information

· **14.1 UN-Number**

· **ADR, IMDG, IATA** UN1866

· **14.2 UN proper shipping name**

· **ADR** 1866 RESIN SOLUTION, special provision 640E  
· **IMDG, IATA** RESIN SOLUTION

· **14.3 Transport hazard class(es)**

· **ADR, IMDG, IATA**



· **Class** 3 Flammable liquids.

· **Label** 3

· **14.4 Packing group**

· **ADR, IMDG, IATA** III

· **14.5 Environmental hazards:**

· **Marine pollutant:** No

· **14.6 Special precautions for user**

Warning: Flammable liquids.

· **Danger code (Kemler):** 30

· **EMS Number:** F-E,S-E

· **14.7 Transport in bulk according to Annex II of**

**MARPOL73/78 and the IBC Code** Not applicable.

· **Transport/Additional information:**

· **ADR**

· **Limited quantities (LQ)** 5L

· **Transport category** 3

· **Tunnel restriction code** D/E

· **UN "Model Regulation":** UN1866, RESIN SOLUTION, special provision 640E, 3, III

### SECTION 15: Regulatory information

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

No further relevant information available.

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· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

- H225 Highly flammable liquid and vapour.  
 H226 Flammable liquid and vapour.  
 H304 May be fatal if swallowed and enters airways.  
 H312 Harmful in contact with skin.  
 H315 Causes skin irritation.  
 H317 May cause an allergic skin reaction.  
 H319 Causes serious eye irritation.  
 H330 Fatal if inhaled.  
 H332 Harmful if inhaled.  
 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
 H335 May cause respiratory irritation.  
 H336 May cause drowsiness or dizziness.  
 H351 Suspected of causing cancer.  
 H373 May cause damage to the hearing organs through prolonged or repeated exposure.  
 H411 Toxic to aquatic life with long lasting effects.  
 H412 Harmful to aquatic life with long lasting effects.
- R10 Flammable.  
 R11 Highly flammable.  
 R20 Harmful by inhalation.  
 R20/21 Harmful by inhalation and in contact with skin.  
 R26 Very toxic by inhalation.  
 R36 Irritating to eyes.  
 R36/37/38 Irritating to eyes, respiratory system and skin.  
 R37 Irritating to respiratory system.  
 R38 Irritating to skin.  
 R40 Limited evidence of a carcinogenic effect.  
 R42/43 May cause sensitisation by inhalation and skin contact.  
 R43 May cause sensitisation by skin contact.  
 R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.  
 R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
 R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
 R65 Harmful: may cause lung damage if swallowed.  
 R66 Repeated exposure may cause skin dryness or cracking.  
 R67 Vapours may cause drowsiness and dizziness.

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

· **Contact:**

Dr. Kötte, phone +49 (0)931 27964-25  
 E-Mail: msds.info@uzin-utz.com

· **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)  
 ICAO: International Civil Aviation Organisation  
 ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
 IMDG: International Maritime Code for Dangerous Goods  
 IATA: International Air Transport Association  
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
 EINECS: European Inventory of Existing Commercial Chemical Substances  
 ELINCS: European List of Notified Chemical Substances  
 CAS: Chemical Abstracts Service (division of the American Chemical Society)  
 LC50: Lethal concentration, 50 percent

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*LD50: Lethal dose, 50 percent**Flam. Liq. 2: Flammable liquids, Hazard Category 2**Flam. Liq. 3: Flammable liquids, Hazard Category 3**Acute Tox. 4: Acute toxicity, Hazard Category 4**Acute Tox. 2: Acute toxicity, Hazard Category 2**Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2**Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2**Resp. Sens. 1: Sensitisation - Respirat., Hazard Category 1**Skin Sens. 1: Sensitisation - Skin, Hazard Category 1**Carc. 2: Carcinogenicity, Hazard Category 2**STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3**STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2**Asp. Tox. 1: Aspiration hazard, Hazard Category 1**Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2**Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3***. \* Data compared to the previous version altered.**

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