

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

Printing date 13.05.2019

Version number 3

Revision: 13.05.2019

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

- 1.1 Product identifier
- Trade name **Bakit PU-P Komp. A**
- 1.2 Relevant identified uses of the substance or mixture and uses advised against **none**
- Sector of Use **SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)**
- Product category **PC1 Adhesives, sealants**
- Application of the substance / the mixture **Adhesives  
Polyurethane resin**
- 1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier: **Kiesel Bauchemie GmbH & Co. KG  
Wolf-Hirth-Str. 2  
  
D-73730 Esslingen  
  
Tel.: +49(0)711/93134-0  
Fax: +49(0)711/93143-140  
E-Mail: sida@kiesel.com**
- Informing department: **Laboratory, departments of environmental protection and labor protection**
- 1.4 Emergency telephone number: **Poison Information Center Freiburg Tel.: +49(0)761/ 19240  
(24h German and English)**

**SECTION 2: Hazards identification**

- 2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008 **The product is not classified, according to the CLP regulation.**
- 2.2 Label elements
- Labelling according to Regulation (EC) No 1272/2008 **Void**
- Hazard pictograms **Void**
- Signal word **Void**
- Hazard statements **Void**
- 2.3 Other hazards **This mixture does not contain a substance considered to be persistent, bioaccumulative or toxic (PBT) becomes. This mixture does not contain a substance which is considered to be very persistent or very bioaccumulative (vPvB)  
(If not mentioned in section 3).**
- Results of PBT and vPvB assessment
- PBT: **Not applicable.**
- vPvB: **Not applicable.**

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

- **3.2 Chemical characterisation: Mixtures**
- **Description:** *Mixture of the substances listed below with nonhazardous additions.*
- **Dangerous components:** *Void*
- **Additional information** *For the wording of the listed hazard phrases refer to section 16.*

**SECTION 4: First aid measures**

- **4.1 Description of first aid measures**
- **General information** *No special measures required.*
- **After inhalation** *Ensure adequate supply of fresh air and seek medical advice as a precaution.*
- **After skin contact** *The product is not skin irritating.*
- **After eye contact** *Rinse opened eye for several minutes under running water.*
- **After swallowing** *In case of persistent symptoms consult doctor.*
- **4.2 Most important symptoms and effects, both acute and delayed** *No further relevant information available.*
- **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** *Use fire fighting measures that suit the environment.*
- **5.2 Special hazards arising from the substance or mixture** *Formation of toxic gases is possible during heating or in case of fire.*
- **5.3 Advice for firefighters**
- **Protective equipment:** *Wear non-circulation breathing equipment and chemical-protective clothing. Do not inhale explosion gases or fire fumes.*

**SECTION 6: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures** *Not required.*
- **6.2 Environmental precautions:** *No special measures required.*

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- **6.3 Methods and material for containment and cleaning up:** *Take-up with liquid binding material (sand, diatomaceous earth, acid binding agent, universal binding agent).*
- **6.4 Reference to other sections**
  - No dangerous materials are released.*
  - See Section 7 for information on safe handling*
  - See Section 8 for information on personal protection equipment.*
  - See Section 13 for information on disposal.*

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** *No special measures required.*
- **Information about protection against explosions and fires:** *No special measures required.*
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:** *Protect from water.*
- **Information about storage in one common storage facility:** *Not required.*
- **Further information about storage conditions:** *None.*
- **7.3 Specific end use(s)** *No further relevant information available.*

### SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical systems:** *No further data; see item 7.*
- **8.1 Control parameters**
- **Components with critical values that require monitoring at the workplace:**
- **Additional information:** *The lists that were valid during the compilation were used as basis.*
- **8.2 Exposure controls**
- **Personal protective equipment**
- **General protective and hygienic measures** *Take off soiled soaked clothing.*
- **Breathing equipment:** *Not required.*
- **Protection of hands:** *Recommended*  
*Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation*  
*Rubber gloves*
- **Material of gloves**
- **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.*

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· **Eye protection:** **Safety glasses recommended during refilling.**

### SECTION 9: Physical and chemical properties

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

· **Appearance:**

Form:	Fluid
Colour:	Light beige
Smell:	Characteristic
Odour threshold:	Not determined.

· **pH-value:** Not determined.

· **Change in condition**

Melting point/freezing point:	Not determined
Initial boiling point and boiling range:	351 °C

· **Flash point:** 255 °C

· **Inflammability (solid, gaseous)** Not applicable.

· **Ignition temperature:** 450 °C

· **Decomposition temperature:** Not determined.

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

· **Explosive properties:** Product is not explosive.

· **Critical values for explosion:**

Lower:	Not determined.
Upper:	Not determined.

· **Steam pressure:** Not determined.

· **Density at 20 °C** 1.7 g/cm<sup>3</sup>

· **Relative density** Not determined.

· **Vapour density** Not determined.

· **Evaporation rate** Not determined.

· **Solubility in / Miscibility with**

Water:	less miscible
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· **Partition coefficient: n-octanol/water:** Not determined.

· **Viscosity:**

dynamic:	Not determined.
kinematic:	Not determined.

· **Solvent content:**

Organic solvents:	0.0 %
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· **9.2 Other information** The physical data are average values.

### SECTION 10: Stability and reactivity

· **10.1 Reactivity** No further relevant information available.

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- **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:**      **None known.**

**SECTION 11: Toxicological information**

- **11.1 Information on toxicological effects**
- **Acute toxicity**      **Based on available data, the classification criteria are not met.**
- **Primary irritant effect:**
- **Skin corrosion/irritation**      **Based on available data, the classification criteria are not met.**
- **Serious eye damage/irritation**      **Based on available data, the classification criteria are not met.**
- **Respiratory or skin sensitisation**      **Based on available data, the classification criteria are not met.**
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity**      **Based on available data, the classification criteria are not met.**
- **Carcinogenicity**      **Based on available data, the classification criteria are not met.**
- **Reproductive toxicity**      **Based on available data, the classification criteria are not met.**
- **STOT-single exposure**      **Based on available data, the classification criteria are not met.**
- **STOT-repeated exposure**      **Based on available data, the classification criteria are not met.**
- **Aspiration hazard**      **Based on available data, the classification criteria are not met.**

**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.**
- **Additional 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.**
- **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**      **Disposal according to official regulations**

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- **Uncleaned packagings:**
- **Recommendation:** *Disposal must be made according to official regulations.*

### SECTION 14: Transport information

- **14.1 UN-Number**  
 · **ADR, ADN, IMDG, IATA** Void
- **14.2 UN proper shipping name**  
 · **ADR, ADN, IMDG, IATA** Void
- **14.3 Transport hazard class(es)**  
 · **ADR, ADN, IMDG, IATA**  
 · **Class** Void
- **14.4 Packing group**  
 · **ADR, IMDG, IATA** Void
- **14.5 Environmental hazards:**  
 · **Marine pollutant:** No
- **14.6 Special precautions for user** Not applicable.
- **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code** Not applicable.
- **Transport/Additional information:** Not classified as dangerous in the meaning of transport regulations.
- **UN "Model Regulation":** Void

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

*This information describes exclusively the safety requirements for the product(s) and is based on the present level of our knowledge. It does not constitute a legal warranty regulations. The delivery specifications are contained in the corresponding product sheet.*

- **Abbreviations and acronyms:** *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*

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**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)**

**PBT: Persistent, Bioaccumulative and Toxic**

**vPvB: very Persistent and very Bioaccumulative**

· Comment

**The information is based on our knowledge we do have so far. However it is not a confirmation of product features and does not establish contractual legal relationship. Use, operation and processing are the responsibility of the customer.**

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

- 1.1 Product identifier
- Trade name **Bakit PU-P; Komp. B**
- 1.2 Relevant identified uses of the substance or mixture and uses advised against **Do not use for splashing / spraying  
none**
- Sector of Use **SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)**
- Application of the substance / the mixture **Hardening agent/ Curing agent**
- 1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier: **Kiesel Bauchemie GmbH & Co. KG  
Wolf-Hirth-Str. 2  
  
D-73730 Esslingen  
  
Tel.:+49(0)711/93134-0  
Fax:+49(0)711/93143-140  
E-Mail: sida@kiesel.com**
- Informing department: **Laboratory, departments of environmental protection and labor protection**
- 1.4 Emergency telephone number: **Poison Information Center Freiburg Tel.: +49(0)761/ 19240  
(24h German and English)**

**SECTION 2: Hazards identification**

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

**GHS08 health hazard****Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.****Carc. 2 H351 Suspected of causing cancer.****STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.****GHS07****Acute Tox. 4 H312 Harmful in contact with skin.****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.****STOT SE 3 H335 May cause respiratory irritation.**

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- **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**

**GHS07 GHS08**
- **Signal word** **Danger**
- **Hazard-determining components of labelling:** *diphenylmethanediisocyanate, isomeres and homologues*
- **Hazard statements**
  - H312+H332** *Harmful in contact with skin or 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.*
  - H351** *Suspected of causing cancer.*
  - H335** *May cause respiratory irritation.*
  - H373** *May cause damage to organs through prolonged or repeated exposure.*
- **Precautionary statements**
  - P261** *Avoid breathing dust/fume/gas/mist/vapours/spray.*
  - P281** *Use personal protective equipment as required.*
  - P285** *In case of inadequate ventilation wear respiratory protection.*
  - P302+P352** *IF ON SKIN: Wash with plenty of water/.*
  - P305+P351+P338** *IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.*
  - P342+P311** *If experiencing respiratory symptoms: Call a POISON CENTER/doctor/.*
  - P501** *Dispose of contents/container in accordance with local/regional/national/international regulations.*
- **Additional information:** *Restricted to professional users*  
*EUH204 Contains isocyanates. May produce an allergic reaction.*
- **2.3 Other hazards** *This mixture does not contain a substance considered to be persistent, bioaccumulative or toxic (PBT) becomes. This mixture does not contain a substance which is considered to be very persistent or very bioaccumulative (vPvB) (If not mentioned in section 3).*
- **Results of PBT and vPvB assessment**
- **PBT:** *Not applicable.*
- **vPvB:** *Not applicable.*

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### SECTION 3: Composition/information on ingredients

#### · 3.2 Chemical characterisation: Mixtures

##### · Dangerous components:

CAS: 9016-87-9	diphenylmethanediisocyanate, isomeres and homologues	50-100%
	 Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373  Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	

- **Additional information** Have also a look to point 8 "Exposure controls and personal protection"  
 For the wording of the listed hazard phrases refer to section 16.

### SECTION 4: First aid measures

#### · 4.1 Description of first aid measures

- ~~General information~~ **General information** Keep patient calm, remove to fresh air, summon medical help. Symptoms can appear later. Provide plenty of fresh air. In case of unconsciousness bring patient into stable side position for transport.
- **After skin contact** Instantly wash with water and soap and rinse thoroughly.
- **After eye contact** Rinse immediately and thoroughly with eyelids open for 15 minutes under running water, consult eye specialist.
- **After swallowing** In case of persistent symptoms consult doctor.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **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** Use fire fighting measures that suit the environment.
- **5.2 Special hazards arising from the substance or mixture** Formation of poisonous gases during heating or in fires. No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear non-circulation breathing equipment and chemical-protective clothing. Do not inhale explosion gases or fire fumes.

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**SECTION 6: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures**      **Ensure adequate ventilation**
- **6.2 Environmental precautions:**      **No special measures required.**
- **6.3 Methods and material for containment and cleaning up:**      **Take-up with liquid binding material (sand, diatomaceous earth, acid binding agent, universal binding agent).  
Dispose of contaminated material as waste according to item 13.**
- **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 information on disposal.**

**SECTION 7: Handling and storage**

- **7.1 Precautions for safe handling**      **Do not leave the container standing open.  
Ensure good ventilation/exhaustion at the workplace.  
Open and handle container with care.  
Prevent formation of aerosols.**
- **Information about protection against explosions and fires:**      **Keep breathing equipment ready.**
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:**      **No special requirements.**
- **Information about storage in one common storage facility:**      **Not required.**
- **Further information about storage conditions:**      **Keep container tightly sealed.**
- **7.3 Specific end use(s)**      **No further relevant information available.**

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

- **Additional information about design of technical systems:**      **No further data; see item 7.**
- **8.1 Control parameters**
- **Components with critical values that require monitoring at the workplace:**
- **Additional information:**      **The lists that were valid during the compilation were used as basis.**

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- **8.2 Exposure controls**
- **Personal protective equipment**
- **General protective and hygienic measures**

**Do not eat, drink or smoke while working.**  
**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.**  
**Store protective clothing separately.**  
**Avoid contact with the eyes and skin.**

- **Breathing equipment:**

**In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.**

- **Protection of hands:**

**Protective gloves.**

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

**Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation**

- **Material of gloves**

**Nitrile rubber, NBR**

**Fluorocarbon rubber (Viton)**

- **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 safety glasses.**

### SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**

- **Appearance:**

**Form: Fluid**

**Colour: Brown**

- **Smell: earthy, slightly musty.**

- **Odour threshold: Not determined.**

- **pH-value: n.a.**

- **Change in condition**

**Melting point/freezing point: 41 °C**

**Initial boiling point and boiling range: >200 °C ((DIN))**

- **Flash point: > 100 °C ((DIN))**

- **Inflammability (solid, gaseous) Not applicable.**

- **Ignition temperature: 400 °C ((DIN))**

- **Decomposition temperature: Not determined.**

- **Self-inflammability: Product is not selfigniting.**

- **Explosive properties: Product is not explosive.**

- **Critical values for explosion:**

**Lower: Not determined.**

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<b>Upper:</b>	<b>Not determined.</b>
· Steam pressure at 25 °C:	<b>0.0002 hPa ((DIN))</b>
· Density at 20 °C	<b>1.275 g/cm<sup>3</sup></b>
· Relative density	<b>Not determined.</b>
· Vapour density	<b>Not determined.</b>
· Evaporation rate	<b>Not determined.</b>
· Solubility in / Miscibility with Water:	<b>less miscible</b>
· Partition coefficient: n-octanol/water:	<b>Not determined.</b>
· Viscosity:	
dynamic at 20 °C:	<b>220 mPas</b>
kinematic:	<b>Not determined.</b>
· 9.2 Other information	<b>No further relevant information available.</b>

### SECTION 10: Stability and reactivity

- 10.1 Reactivity **No further relevant information available.**
- 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: **None known.**

### SECTION 11: Toxicological information

- 11.1 Information on toxicological effects
- Acute toxicity **Harmful in contact with skin or if inhaled.**

· LD/LC50 values that are relevant for classification:

**CAS: 9016-87-9 diphenylmethanediisocyanate, isomeres and homologues**

Oral	LD50	>10,000 mg/kg (rat)
Dermal	LD50	>10,000 mg/kg (rab)
Inhalative	LC50/4 h	0.493 mg/l (rat)

- Primary irritant effect:
- Skin corrosion/irritation **Causes skin irritation.**
- Serious eye damage/irritation **Causes serious eye irritation.**
- Respiratory or skin sensitisation **May cause allergy or asthma symptoms or breathing difficulties if inhaled.**
- Subacute to chronic toxicity: **May cause an allergic skin reaction.**
- Subacute-chronical toxicity **Length of trials: 2 years**
- Application: **inhalative (rat): > 0.2 < 1 mg/m<sup>3</sup> aerosol (PMDI).**
- Findings: **when inhaled, the substance caused clear local irritation in the rats with epithelium damage.**

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**Application: inhalative (rat): 6 mg/m<sup>3</sup> aerosol (PMDI).****Findings: when inhaled, the substance caused clear local irritation in the rats with epithelium damage. Some of the animals also suffered local tumour growth after this.**

- **CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)**

**Carc.2**

- **Germ cell mutagenicity**

**Based on available data, the classification criteria are not met. Suspected of causing cancer.**

- **Carcinogenicity**

**Based on available data, the classification criteria are not met.**

- **Reproductive toxicity**

**May cause respiratory irritation.**

- **STOT-single exposure**

**May cause damage to organs through prolonged or repeated exposure.**

- **STOT-repeated exposure**

- **Aspiration hazard**

**Based on available data, the classification criteria are not met.**

### SECTION 12: Ecological information

- **12.1 Toxicity**

- **Aquatic toxicity:**

CAS: 9016-87-9 diphenylmethanediisocyanate, isomeres and homologues

EC50(3h) ≥1,000 mg/l (Belebtschlamm Bakterien)

LC 50 (96h) &gt;1,000 mg/l (Danio rerio (Zebra bärbling))

&gt;1,000 mg/l (Akute Fischtoxizität (Zebra fisch))

- **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.**

- **Additional 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.**

- **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**

**Must be forwarded for special treatment in accordance with local authority regulations, e.g. suitable incineration plant.**

- **Recommendation**

**Disposal according to official regulations**

- **European waste catalogue**

08 04 10 waste adhesives and sealants other than those mentioned in 08 04 09

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- **Uncleaned packagings:**
- **Recommendation:** **Disposal must be made according to official regulations.**

### SECTION 14: Transport information

- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li>· 14.1 UN-Number</li> <li>· ADR, ADN, IMDG, IATA</li> </ul>                                   | Void   |
| <ul style="list-style-type: none"> <li>· 14.2 UN proper shipping name</li> <li>· ADR, ADN, IMDG, IATA</li> </ul>                     | Void   |
| <ul style="list-style-type: none"> <li>· 14.3 Transport hazard class(es)</li> <li>· ADR, ADN, IMDG, IATA</li> <li>· Class</li> </ul> | Void   |
| <ul style="list-style-type: none"> <li>· 14.4 Packing group</li> <li>· ADR, IMDG, IATA</li> </ul>                                    | Void   |
| <ul style="list-style-type: none"> <li>· 14.5 Environmental hazards:</li> <li>· Marine pollutant:</li> </ul>                         | No   |
| <ul style="list-style-type: none"> <li>· 14.6 Special precautions for user</li> </ul>  | Not applicable.  |
| <ul style="list-style-type: none"> <li>· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</li> </ul>          | Not applicable.  |
| <ul style="list-style-type: none"> <li>· Transport/Additional information:</li> </ul>  | Not classified as dangerous in the meaning of transport regulations. |
| <ul style="list-style-type: none"> <li>· UN "Model Regulation":</li> </ul>   | Void   |

### SECTION 15: Regulatory information

- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture</li> <li>· Directive 2012/18/EU</li> <li>· Named dangerous substances - ANNEX I</li> <li>· REGULATION (EC) No 1907/2006 ANNEX XVII</li> </ul> | <p style="margin: 0;">None of the ingredients is listed.</p> <p style="margin: 0;">Conditions of restriction: 3</p> |
| <ul style="list-style-type: none"> <li>· 15.2 Chemical safety assessment:</li> </ul>   | <p style="margin: 0;">A Chemical Safety Assessment has not been carried out.</p>                                    |

### SECTION 16: Other information

**This information describes exclusively the safety requirements for the product(s) and is based on the present level of our knowledge. It does not constitute a legal warranty regulations. The delivery specifications are contained in the corresponding product sheet.**

- **Abbreviations and acronyms:** 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

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

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**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**  
**LD50: Lethal dose, 50 percent**  
**PBT: Persistent, Bioaccumulative and Toxic**  
**vPvB: very Persistent and very Bioaccumulative**  
**Acute Tox. 4: Acute toxicity – Category 4**  
**Skin Irrit. 2: Skin corrosion/irritation – Category 2**  
**Eye Irrit. 2: Serious eye damage/eye irritation – Category 2**  
**Resp. Sens. 1: Respiratory sensitisation – Category 1**  
**Skin Sens. 1: Skin sensitisation – Category 1**  
**Carc. 2: Carcinogenicity – Category 2**  
**STOT SE 3: Specific target organ toxicity (single exposure) – Category 3**  
**STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2**  
**The information is based on our knowledge we do have so far. However it is not a confirmation of product features and does not establish contractual legal relationship. Use, operation and processing are the responsibility of the customer.**

· **Comment**

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