




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

- **1.1 Product identifier**
- **Trade name:** DAKORIT PUR 1K 30P
- **Article number:** 50232 B
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture**  
One-component liquid plastic for seamless elastic roof sealing, especially in highly exposed roof areas.
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Heinrich Hahne GmbH & Co. KG  
Heinrich-Hahne-Weg 11  
45711 Datteln Tel.: 02363/5663-0
- **Further information obtainable from:**  
Abteilung: Produktsicherheit  
Tel.: 02363 5663-0  
Email: [info@hahne-bautenschutz.de](mailto:info@hahne-bautenschutz.de)
- **1.4 Emergency telephone number:**  
Gif tinformati onszen trum Nord (GIZ Nord) Universit ät Göttingen,  
Tel.: 0551-19240

### 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.  
Eye Irrit. 2 H319 Causes serious eye irritation.  
Skin Sens. 1 H317 May cause an allergic skin reaction.*
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
- **Hazard description:** Xn Harmful
- **Information concerning particular hazards for human and environment:**  
R 10 Flammable.  
R 20 Harmful by inhalation.  
R 36 Irritating to eyes.  
R 42/43 May cause sensitisation by inhalation and skin contact.  
Contains isocyanates. May produce an allergic reaction.
- **Classification system:**  
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

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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**



GHS02    GHS07    GHS08

- **Signal word** *Danger*
- **Hazard-determining components of labelling:**  
*Aromatisches Polyisocyanat-Prepolymer*  
*xylene, mixed isomers, pure*  
*Isophorondiisocyanat Homopolymer*  
*4-methyl-m-phenylene diisocyanate*
- **Hazard statements**  
*H226 Flammable liquid and vapour.*  
*H332 Harmful if inhaled.*  
*H319 Causes serious eye irritation.*  
*H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.*  
*H317 May cause an allergic skin reaction.*
- **Precautionary statements**  
*P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.*  
*P261 Avoid breathing dust/fume/gas/mist/vapours/spray.*  
*P280 Wear protective gloves/protective clothing/eye protection/face protection.*  
*P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.*  
*P304+P312 IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.*  
*P302+P352 IF ON SKIN: Wash with plenty of soap and water.*
- **Additional information:**  
*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:** *Mixture of substances listed below with harmless additives.*

· **Dangerous components:**

CAS: 37273-56-6	Aromatisches Polyisocyanat-Prepolymer ☒ Xi R36; ☒ Xi R43 ☒ Resp. Sens. 1, H334; ☒ Eye Irrit. 2, H319; Skin Sens. 1, H317	25-50%
CAS: 1330-20-7 EINECS: 215-535-7	xylene, mixed isomers, pure ☒ Xn R20/21; ☒ Xi R38 R10 ☒ Flam. Liq. 3, H226; ☒ Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315	2.5-10%

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CAS: 108-65-6 EINECS: 203-603-9	2-methoxy-1-methylethyl acetate R10 Flam. Liq. 3, H226; Eye Irrit. 2, H319	< 2.5%
CAS: 53880-05-0	Isophorondiisocyanat Homopolymer Xi R37; Xi R43 Skin Sens. 1, H317; STOT SE 3, H335	< 2.5%
CAS: 77-58-7 EINECS: 201-039-8	dibutyltin dilaurate T R60-61-25; C R34; Xn R22-48-68; Xi R38; N R50/53 Acute Tox. 3, H301; Muta. 2, H341; Repr. 1A, H360; Skin Corr. 1B, H314; Aquatic Acute 1, H400; Aquatic Chronic 1, H410	< 0.25%
CAS: 584-84-9 EINECS: 209-544-5	4-methyl-m-phenylene 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	< 0.25%

**Additional information:**

For the wording of the listed risk phrases refer to section 16.

GISCODE: PU50

### SECTION 4: First aid measures

**4.1 Description of first aid measures**

**After inhalation:**

Supply fresh air and to be sure call for a doctor.

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. If symptoms persist, consult a doctor.

**After swallowing:** Drink plenty of water and provide fresh air. Call for a doctor immediately.

**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 extinguishing methods suitable to surrounding conditions.

Foam, carbon dioxide, dry chemical, water fog, spray

**For safety reasons unsuitable extinguishing agents:** Water jet.

**5.2 Special hazards arising from the substance or mixture**

In case of fire formation of carbon monoxide, nitrogen oxide, isocyanate vapors and traces of hydrogen cyanide possible.

**5.3 Advice for firefighters**

**Protective equipment:**

Explosion and fire do not breathe fumes.

Wear self-contained breathing apparatus.

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### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep spectators away.
- **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**  
Open and handle receptacle with care.  
Ensure adequate ventilation in the workplace.
- **Information about fire - and explosion protection:** Protect from heat and direct sunlight.
- **7.2 Conditions for safe storage, including any incompatibilities**  
· **Storage:**  
· **Requirements to be met by storerooms and receptacles:** Store on cool and dry place.  
· **Information about storage in one common storage facility:** Store away from foodstuffs.  
· **Further information about storage conditions:**  
Keep containers dry and prevent reaction with atmospheric moisture.
- **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:**

<b>1330-20-7 xylene, mixed isomers, pure (2.5-10%)</b>	
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
<b>108-65-6 2-methoxy-1-methylethyl acetate (2.5-10%)</b>	
WEL	Short-term value: 548 mg/m <sup>3</sup> , 100 ppm Long-term value: 274 mg/m <sup>3</sup> , 50 ppm Sk
<b>584-84-9 4-methyl-m-phenylene diisocyanate (&lt;0.25%)</b>	
WEL	Short-term value: 0.07 mg/m <sup>3</sup> Long-term value: 0.02 mg/m <sup>3</sup> Sen; as -NCO
<b>64742-95-6 Solvent naphtha (petroleum), light arom. (&lt;2.5%)</b>	
	TRGS 900/901 200 mg/m <sup>3</sup>

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**77-58-7 dibutyltin dilaurate (<0.25%)**

WEL	Short-term value: 0.2 mg/m <sup>3</sup> Long-term value: 0.1 mg/m <sup>3</sup> as Sn; Sk
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- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.
- **Respiratory protection:** With good ventilation is not required.
- **Protection of hands:**  
Protective gloves  
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation  
Suitable materials: butyl rubber, nitrile, PVC
- **Material of gloves**  
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.  
Protective gloves material: PVC, nitrile rubber.
- **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

**SECTION 9: Physical and chemical properties**

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

Form:	Fluid
Colour:	Silver Grey
Odour:	Characteristic
- **Change in condition**

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	146 °C
- **Flash point:** 44 °C
- **Ignition temperature:** 500 °C
- **Self-igniting:** Product is not selfigniting.
- **Danger of explosion:** The product is not explosive, but the formation of explosive vapor-air mixture is possible.
- **Explosion limits:**

Lower:	1.5 Vol %
Upper:	10 Vol %

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· <b>Vapour pressure at 25.5 °C:</b>	3.8 mbar
· <b>Density at 20 °C:</b>	1.4 g/cm <sup>3</sup>
· <b>Solubility in / Miscibility with water:</b>	Not miscible or difficult to mix.
· <b>Viscosity:</b> <b>Dynamic at 20 °C:</b>	4000 mPas
· <b>Solvent content:</b> <b>Organic solvents:</b>	10.0 %
<b>Solids content:</b>	90.0 %
· <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:**
- **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

### 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 2 (German Regulation) (Self-assessment): hazardous for water
- Do not allow product to reach ground water, water course or sewage system.
- Danger to drinking water if even small quantities leak into the ground.

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- **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**  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
  - **European waste catalogue**
- |           |  |
|-----------|--|
| 08 04 09* | waste adhesives and sealants containing organic solvents or other dangerous substances |
|-----------|--|
- **Uncleaned packaging:**
  - **Recommendation:** Disposal must be made according to official regulations.

### SECTION 14: Transport information

- |   |   |
|---|---|
| · <b>14.1 UN-Number</b>   | Void  |
| · <b>ADR, IMDG, IATA</b>  | Void  |
| · <b>14.2 UN proper shipping name</b>   | Void  |
| · <b>ADR, IMDG, IATA</b>  | Void  |
| · <b>14.3 Transport hazard class(es)</b>  | Void  |
| · <b>ADR, IMDG, IATA</b>  | Void  |
| · <b>Class</b>  | Void  |
| · <b>14.4 Packing group</b>   | Void  |
| · <b>ADR, IMDG, IATA</b>  | Void  |
| · <b>14.5 Environmental hazards:</b>  | Not applicable.                                       |
| · <b>14.6 Special precautions for user</b>  | Not applicable.                                       |
| · <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>  | Not dangerous for transport according to above rules. |

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
  - **National regulations:**
  - **Technical instructions (air):**
- | Class | Share in % |
|-------|------------|
| I     | 45.0       |
| III   | 9.9        |
- **Waterhazard class:** Water hazard class 2 (Self-assessment): hazardous for water.
  - **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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### 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.*
  - H301 *Toxic if swallowed.*
  - H312 *Harmful in contact with skin.*
  - H314 *Causes severe skin burns and eye damage.*
  - 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.*
  - H341 *Suspected of causing genetic defects.*
  - H351 *Suspected of causing cancer.*
  - H360 *May damage fertility or the unborn child.*
  - H400 *Very toxic to aquatic life.*
  - H410 *Very toxic to aquatic life with long lasting effects.*
  - H412 *Harmful to aquatic life with long lasting effects.*
- 
- R10 *Flammable.*
  - R20/21 *Harmful by inhalation and in contact with skin.*
  - R22 *Harmful if swallowed.*
  - R25 *Toxic if swallowed.*
  - R26 *Very toxic by inhalation.*
  - R34 *Causes burns.*
  - 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 *Danger of serious damage to health by prolonged exposure.*
  - R50/53 *Very 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.*
  - R60 *May impair fertility.*
  - R61 *May cause harm to the unborn child.*
  - R68 *Possible risk of irreversible effects.*

· **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)
- IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
- ICAO: International Civil Aviation Organisation
- ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)
- 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)
- Flam. Liq. 3: Flammable liquids, Hazard Category 3
- Acute Tox. 3: Acute toxicity, Hazard Category 3
- Acute Tox. 4: Acute toxicity, Hazard Category 4
- Acute Tox. 2: Acute toxicity, Hazard Category 2

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

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*Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B*  
*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*  
*Muta. 2: Germ cell mutagenicity, Hazard Category 2*  
*Carc. 2: Carcinogenicity, Hazard Category 2*  
*Repr. 1A: Reproductive toxicity, Hazard Category 1A*  
*STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3*  
*Aquatic Acute 1: Hazardous to the aquatic environment - Acute Hazard, Category 1*  
*Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1*  
*Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3*

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