

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : PARFIX PU 56 KOMP B 1,0 KG  
Revision date : 08.01.2016  
Print date : 04.03.2016

Version (Revision) : 11.0.0 (10.0.0)

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

### 1.1 Product identifier

PARFIX PU 56 KOMP B 1,0 KG (30822004)

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

#### Relevant identified uses

Hardener for 2-part polyurethane adhesive - for the professional user

#### Product Categories [PC]

PC1 - Adhesives, sealants

#### Uses advised against

The product is NOT intended for private use.

### 1.3 Details of the supplier of the safety data sheet

#### Supplier (manufacturer/importer/only representative/downstream user/distributor)

Bostik GmbH

#### Street :

An der Bundesstraße 16

#### Postal code/city :

33829 Borgholzhausen

#### Telephone :

+49 (0) 5425-801-0

#### Telefax :

+49 (0) 5425-801-140

#### Information contact :

msds.germany@bostik.com

### 1.4 Emergency telephone number

out of office hours: +49 (0) 5425 / 951-220

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute Tox. 4 ; H332 - Acute toxicity (inhalative) : Category 4 ; Harmful if inhaled.

Carc. 2 ; H351 - Carcinogenicity : Category 2 ; Suspected of causing cancer.

Eye Irrit. 2 ; H319 - Serious eye damage/eye irritation : Category 2A ; Causes serious eye irritation.

Skin Irrit. 2 ; H315 - Skin corrosion/irritation : Category 2 ; Causes skin irritation.

Resp. Sens. 1 ; H334 - Sensitisation to the respiratory tract : Category 1 ; May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin Sens. 1 ; H317 - Skin sensitisation : Category 1 ; May cause an allergic skin reaction.

STOT SE 3 ; H335 - STOT-single exposure : Category 3 ; May cause respiratory irritation.

STOT RE 2 ; H373 - STOT-repeated exposure : Category 2 ; May cause damage to organs through prolonged or repeated exposure.

### 2.2 Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

##### Hazard pictograms



Health hazard (GHS08) · Exclamation mark (GHS07)

#### Signal word

Danger

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## Hazard components for labelling

DIPHENYLMETHANE-4,4'-DIISOCYANATE, ISOMERES AND HOMOLOGUES ; CAS No. : 9016-87-9  
4,4'-METHYLENEDIPHENYL DIISOCYANATE ; CAS No. : 101-68-8  
DIPHENYLMETHANE-2,4'-DIISOCYANATE ; CAS No. : 5873-54-1  
2,2'-METHYLENEDIPHENYL DIISOCYANATE ; CAS No. : 2536-05-2

## Hazard statements

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H351 Suspected of causing cancer.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H332 Harmful if inhaled.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.

## Precautionary statements

P260 Do not breathe vapours/spray.  
P280 Wear protective gloves and eye/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+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
P308+P313 IF exposed or concerned: Get medical advice/attention.  
P402+P404 Store in a dry place. Store in a closed container.  
P501 Dispose of contents/container according with local regulations.

## Special rules for supplemental label elements for certain mixtures

EUH204 Contains isocyanates. May produce an allergic reaction.

## 2.3 Other hazards

None

## 2.4 Additional information

The adhesive is a mixture out of part A and suitable part B. The cured adhesive (A + B) is not subject to the Ordinance on Hazardous Materials (GefStoffV).

## SECTION 3: Composition / information on ingredients

### 3.2 Mixtures

#### Hazardous ingredients

DIPHENYLMETHANE-4,4'-DIISOCYANATE, ISOMERES AND HOMOLOGUES ; CAS No. : 9016-87-9  
Weight fraction :  $\geq 50 - < 100$  %  
Classification 1272/2008 [CLP]: Resp. Sens. 1; H334 Carc. 2; H351 STOT RE 2; H373 Acute Tox. 4; H332 Skin Irrit. 2; H315 Skin Sens. 1; H317 Eye Irrit. 2; H319 STOT SE 3; H335

4,4'-METHYLENEDIPHENYL DIISOCYANATE ; REACH registration No. : 01-2119457014-47 ; EC No. : 202-966-0; CAS No. : 101-68-8  
Weight fraction :  $\geq 10 - < 20$  %  
Classification 1272/2008 [CLP]: Resp. Sens. 1; H334 Carc. 2; H351 STOT RE 2; H373 Acute Tox. 4; H332 Skin Irrit. 2; H315 Skin Sens. 1; H317 Eye Irrit. 2; H319 STOT SE 3; H335

DIPHENYLMETHANE-2,4'-DIISOCYANATE ; REACH registration No. : 01-2119480143-45 ; EC No. : 227-534-9; CAS No. : 5873-54-1  
Weight fraction :  $\geq 5 - < 10$  %  
Classification 1272/2008 [CLP]: Resp. Sens. 1; H334 Carc. 2; H351 STOT RE 2; H373 Acute Tox. 4; H332 Skin Irrit. 2; H315 Skin Sens. 1; H317 Eye Irrit. 2; H319 STOT SE 3; H335

2,2'-METHYLENEDIPHENYL DIISOCYANATE ; REACH registration No. : 01-2119927323-43 ; EC No. : 219-799-

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4; CAS No. : 2536-05-2

Weight fraction :  $\geq 1 - < 3 \%$

Classification 1272/2008 [CLP]: Resp. Sens. 1; H334 Carc. 2; H351 STOT RE 2; H373 Acute Tox. 4; H332 Skin Irrit. 2; H315 Skin Sens. 1; H317 Eye Irrit. 2; H319 STOT SE 3; H335

#### Additional information

Full text of H- and EUH-phrases: see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

Remove contaminated, saturated clothing immediately. If medical advice is needed, have product container, label or safety data sheet at hand.

#### Following inhalation

Remove casualty to fresh air and keep warm and at rest. Consult a physician in case of symptoms.

#### In case of skin contact

After contact with skin, wash immediately with plenty of water and soap. In case of skin irritation, consult a physician.

#### After eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an ophthalmologist.

#### After ingestion

Do NOT induce vomiting. If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.

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

After inhalation: Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours. Subsequent observance for pneumonia and lung oedema.

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

Carbon dioxide (CO<sub>2</sub>) Extinguishing powder Water spray alcohol resistant foam

#### Unsuitable extinguishing media

Full water jet

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

#### Hazardous combustion products

Carbon monoxide. Carbon dioxide (CO<sub>2</sub>) Nitrogen oxides (NO<sub>x</sub>) Vapours of isocyanates. Traces of Hydrogen cyanide (hydrocyanic acid)

### 5.3 Advice for firefighters

Do not allow run-off from fire-fighting to enter drains or water courses.

#### Special protective equipment for firefighters

In case of fire: Wear self-contained breathing apparatus.

## SECTION 6: Accidental release measures

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## 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protection equipment. Do not breathe vapour. Avoid contact with skin and eyes. Provide adequate ventilation.

## 6.2 Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

## 6.3 Methods and material for containment and cleaning up

Absorb with moist liquid-binding material (sand, diatomite, acid binders, universal binders, saw dust). Take up material after approx. 1 hour in waste containers. Do not close the containers (development of CO<sub>2</sub>!). Keep wet and put it for a few days out door in a safe place. Then dispose of the material collected according to regulations.

## 6.4 Reference to other sections

See chapter 8.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

#### Protective measures

Ensure good ventilation / exhaustion at the working place. Avoid: Generation/formation of aerosols  
Do not breathe vapour. Avoid contact with skin and eyes.

#### Measures to prevent fire

No particular measures required.

### 7.2 Conditions for safe storage, including any incompatibilities

#### Technical measures and storage conditions

No particular measures required.

#### Hints on joint storage

Keep away from Food and feedingstuffs

Storage class (TRGS 510) : 10

#### Further information on storage conditions

Protect against Humidity. Containers should be kept dry and sealed. Recommended storage temperature 10 °C - 35 °C.

### 7.3 Specific end use(s)

Hardener for 2-part polyurethane adhesive - for the professional user - Observe technical data sheet.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limit values

DIPHENYLMETHANE-4,4'-DIISOCYANATE, ISOMERES AND HOMOLOGUES ; CAS No. : 9016-87-9

|  |                        |
|--|------------------------|
| Limit value type (country of origin) : | TRGS 900 ( D )         |
| Parameter :                            | E: inhalable fraction  |
| Limit value :                          | 0,05 mg/m <sup>3</sup> |
| Peak limitation :                      | 1;=2=(I)               |
| Remark :                               | H, Sah, Y              |
| Version :                              | 01.09.2003             |

4,4'-METHYLENEDIPHENYL DIISOCYANATE ; CAS No. : 101-68-8

|  |                |
|--|----------------|
| Limit value type (country of origin) : | TRGS 900 ( D ) |
|--|----------------|

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Parameter : E: inhalable fraction  
Limit value : 0,05 mg/m<sup>3</sup>  
Peak limitation : 1; =2=(I)  
Remark : Sah, H, Y  
Version : 02.07.2009

DIPHENYLMETHANE-2,4'-DIISOCYANATE ; CAS No. : 5873-54-1

Limit value type (country of origin) : TRGS 900 ( D )  
Limit value : 0,05 mg/m<sup>3</sup>  
Peak limitation : 1/=2=(I)  
Version : 01.09.2012

2,2'-METHYLENEDIPHENYL DIISOCYANATE ; CAS No. : 2536-05-2

Limit value type (country of origin) : TRGS 900 ( D )  
Limit value : 0,05 mg/m<sup>3</sup>  
Peak limitation : 1/=2=(I)  
Version : 02.07.2009

## 8.2 Exposure controls

### Personal protection equipment

#### Eye/face protection

Use safety glasses. - DIN EN 166

#### Skin protection

##### Hand protection

Wear suitable gloves. - DIN EN 374

**Suitable material (and thickness) :** CR (polychloroprene, chloroprene rubber - 0,75 mm) - NBR (Nitrile rubber - 0,85 mm) - IIR (Butyl caoutchouc / butyl rubber - 0,7 mm) - FKM (fluoro rubber - 0,65 mm) -

**Unsuitable material :** NR (natural rubber, natural latex) Disposable gloves.

**Breakthrough time (maximum wearing time) :** The permeation time (max. usage time) of the gloves depends on material and thickness as well as temperature. The data are available from the manufacturer of the specific gloves. The permeation time for the mentioned glove materials is in general > 480 min.

**Recommended glove articles :** Appropriate gloves are available e.g. from Mapa-Professionel (F-92205 Neuilly sur Seine - France): STANZOIL ® (CR - 0,85 mm) - ULTRANITRIL ® (491, 492, 494 oder 495 - NBR - 0,55mm) - ULTRIL ® 377 (NBR - 1,3 mm) - COBRA ® (FKM - 0,65 mm) -

##### Body protection

Wear suitable protective clothing.

#### Respiratory protection

Breathing protection equipment required in inadequately ventilated places and during spraying. For short term use: Filtering device (DIN EN 147) combination filter - type A-P2 (for gases and vapours of organic compounds, boiling point above 65 °C / particles, colour code: brown / white)

### General health and safety measures

The usual precautionary measures for the handling of chemicals have to be observed. When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work. Avoid contact with skin, eyes and clothes. Remove contaminated, saturated clothing immediately.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

**Physical state :** liquid

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Colour : dark brown

## Odour

Earthy, musty.

## Odour threshold

No data available

## Safety relevant basis data

|   |          |                    |                       |
|---|----------|--------------------|-----------------------|
| Melting point/melting range :             |          | No data available  |                       |
| Initial boiling point and boiling range : | >        | 300 °C             |                       |
| Decomposition temperature :               |          | No data available  |                       |
| Flash point :                             | ca.      | 230 °C             | C,C,                  |
| Ignition temperature :                    | >        | 600 °C             |                       |
| Lower explosion limit :                   |          | No data available  |                       |
| Upper explosion limit :                   |          | No data available  |                       |
| Vapour pressure :                         | ( 50 °C) | <                  | 1100 hPa              |
| Density :                                 | ( 20 °C) | ca.                | 1,2 g/cm <sup>3</sup> |
| Water solubility :                        | ( 20 °C) |                    | Reacts with water     |
| pH :                                      |          |                    | not applicable        |
| log P O/W :                               |          |                    | No data available     |
| Viscosity :                               | ( 20 °C) |                    | No data available     |
| Relative vapour density :                 | ( 20 °C) |                    | No data available     |
| Vapourisation rate :                      |          |                    | No data available     |
| Oxidising liquids :                       |          | No data available. |                       |
| Explosive properties :                    |          | No data available. |                       |

## 9.2 Other information

The product is not self-igniting. The product is not explosive.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Product cures with moisture.

### 10.2 Chemical stability

Product is stable under normal conditions.

### 10.3 Possibility of hazardous reactions

Exothermic reaction with: Amines. Alcohols Acid bases. In contact with water (moisture) CO<sub>2</sub> is formed which leads to an excess pressure in closed containers.

### 10.4 Conditions to avoid

From about 230°C polymerisation, separation of CO<sub>2</sub>.

### 10.5 Incompatible materials

None known.

### 10.6 Hazardous decomposition products

No dangerous decomposition products during appropriate storage and handling.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Assessment/classification

##### Health hazards

Acute toxicity (oral) : No - Based on available data, the classification criteria are not met.

Acute toxicity (dermal) : No - Based on available data, the classification criteria are not met.

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**Acute toxicity (inhalation) :** Category 4 - Harmful if inhaled.  
**Skin Corrosion / Irritation :** Category 2 - Causes skin irritation.  
**Serious eye damage / eye irritation :** Category 2A - Causes serious eye irritation.  
**Specific target organ toxicity (single exposure) :** No - Based on available data, the classification criteria are not met.  
**Specific target organ toxicity (Respiratory tract irritation) :** Category 3 - May cause respiratory irritation.  
**Specific target organ toxicity (Narcosis) :** No - Based on available data, the classification criteria are not met.  
**Aspiration hazard :** No - Based on available data, the classification criteria are not met.  
**Sensitisation (Respiratory) :** Category 1 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
**Sensitisation (Skin) :** Category 1 - May cause an allergic skin reaction.  
**Germ cell mutagenicity :** No - Based on available data, the classification criteria are not met.  
**Carcinogenicity :** Category 2 - Suspected of causing cancer.  
**Reproductive toxicity :** No - Based on available data, the classification criteria are not met.  
**Reproductive toxicity, Effects on or via lactation :** No - Based on available data, the classification criteria are not met.  
**Specific target organ toxicity (Repeated exposure) :** Category 2 - May cause damage to organs through prolonged or repeated exposure.

### Additional information

Oversensitive persons may show reaction even at very small concentration - below the OEL already.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Aquatic toxicity

The mixture has been checked following the conventional method for eco-toxicological properties. If classified as eco-toxic see section 2 for details.

### 12.2 Persistence and degradability

In accordance with the required stability the product is poorly biodegradable.

### 12.3 Bioaccumulative potential

No information available.

### 12.4 Mobility in soil

No information available.

### 12.5 Results of PBT and vPvB assessment

Contains no PBT / vBvP-substance.

### 12.6 Other adverse effects

No information available.

### 12.7 Additional ecotoxicological information

Do not allow uncontrolled discharge of product into the environment.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product/Packaging disposal

Uncured product: Special waste.

Cured product: household garbage or trade garbage - observe local regulations.

#### Waste codes/waste designations according to EWC/AVV

08 04 09\*: Waste adhesives and sealants containing organic solvents or other dangerous substances.

#### Waste treatment options

Appropriate disposal / Package

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Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

## 13.2 Additional information

Please note: The classification of waste for this product may change according to the field of its application. Please observe Directive 2001/118/EC.

## SECTION 14: Transport information

### 14.1 UN number

No dangerous goods in sense of this transport regulation.

### 14.2 UN proper shipping name

No dangerous goods in sense of this transport regulation.

### 14.3 Transport hazard class(es)

No dangerous goods in sense of this transport regulation.

### 14.4 Packing group

No dangerous goods in sense of this transport regulation.

### 14.5 Environmental hazards

No dangerous goods in sense of this transport regulation.

### 14.6 Special precautions for user

Protect against moisture. Avoid heat influence.

### 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

No information available.

## SECTION 15: Regulatory information

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

#### National regulations

Observe in addition any national regulations!

#### Restrictions of occupation

Please consider possible restrictions of occupation after maternity protection guideline regulation or law for the protection of young workers.

#### Technische Anleitung Luft (TA-Luft)

Weight fraction (Number 5.2.5. I): 95 - 100 %

#### Water hazard class (WGK)

Class : 2 (Hazardous to water) Classification according to VwVwS

#### Other regulations, restrictions and prohibition regulations

To follow : § 4 ChemVerbotsV

#### Betriebssicherheitsverordnung (BetrSichV)

No flammable liquid according to BetrSichV.

### 15.2 Chemical Safety Assessment

No information available.

## SECTION 16: Other information

Please refer also to material safety data sheet of part A.

### 16.1 Indication of changes

02. Classification of the substance or mixture · 02. Label elements · 02. Labelling according to



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Regulation (EC) No. 1272/2008 [CLP] · 02. Labelling according to Regulation (EC) No. 1272/2008 [CLP] - Hazard components for labelling · 03. Hazardous ingredients

### 16.2 Abbreviations and acronyms

BCF - Bioconcentration Factor  
CMR - Carcinogenic-Mutagenic-toxic for Reproduction  
DNEL - Derived No Effect Level  
EWC - European Waste Catalogue  
NOEC - No Observed Effect Concentration  
NOEL - No Observed Effect Level  
OEL - Occupational Exposure Limit  
PBT - Persistent, Bioaccumulative, Toxic  
PNEC - Predicted No Effect Concentration  
STOT - Specific Target Organ Toxicity  
SVHC - Substance of Very High Concern  
vPvB - very Persistent, very Bioaccumulative

### 16.3 Key literature references and sources for data

Regulations for prevention of accidents, safety rules and recommendations provided by professional associations.  
Observe technical data sheet.

### 16.4 Relevant H- and EUH-phrases (Number and full text)

|      |  |
|------|--|
| H315 | Causes skin irritation.  |
| H317 | May cause an allergic skin reaction.                                       |
| H319 | Causes serious eye irritation.   |
| H332 | Harmful if inhaled.  |
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H335 | May cause respiratory irritation.  |
| H351 | Suspected of causing cancer.   |
| H373 | May cause damage to organs through prolonged or repeated exposure.         |

### 16.5 Training advice

When working with hazardous materials, regular training of operators is required by law.

### 16.6 Additional information

None

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.