

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

### 1.1. Product identifier

Name of product TRACKFIX PUR B-Komponente

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

No information available.

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

Manufacturer/distributor TPH Bausysteme GmbH  
Nordportbogen 8, D-22848 Norderstedt  
Phone +49 (0)40 / 52 90 66 78-0, Fax +49 (0)40 / 52 90 66 78-78  
E-Mail [info@tph-bausysteme.com](mailto:info@tph-bausysteme.com)  
Internet [www.tph-bausysteme.com](http://www.tph-bausysteme.com)

### Advice

E-mail (competent person):  
[sdb-info@tph-bausysteme.com](mailto:sdb-info@tph-bausysteme.com)

### 1.4. Emergency telephone number

Emergency advice GIZ-Nord  
Phone +49 (0)551 / 19240

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

| Hazard classes and Hazard categories | Hazard Statements | Classification procedure |
|--------------------------------------|-------------------|--------------------------|
| Acute Tox. 4                         | H332              |                          |
| Skin Irrit. 2                        | H315              |                          |
| Eye Irrit. 2                         | H319              |                          |
| Resp. Sens. 1                        | H334              |                          |
| Skin Sens. 1                         | H317              |                          |
| Carc. 2                              | H351              |                          |
| STOT SE 3                            | H335              |                          |
| STOT RE 2                            | H373              |                          |

### Hazard statements for health hazards

|      |                                                                            |
|------|----------------------------------------------------------------------------|
| 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.         |

### Additional hints

This mixture is classified as hazardous according to Regulation (EC) No 1272/2008 [GHS].

### 2.2. Label elements

**Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]**



GHS07



GHS08

**Signal word**

Danger

**Hazard statements for health hazards**

|      |                                                                            |
|------|----------------------------------------------------------------------------|
| H315 | Causes skin irritation.                                                    |
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| H319 | Causes serious eye irritation.                                             |
| H332 | Harmful if inhaled.                                                        |
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
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| H373 | May cause damage to organs through prolonged or repeated exposure.         |

**Precautionary Statements**

**Prevention**

|      |                                                                            |
|------|----------------------------------------------------------------------------|
| P260 | Do not breathe dust/fume/gas/mist/vapours/spray.                           |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P285 | In case of inadequate ventilation wear respiratory protection.             |

**Response**

|                    |                                                                                                                                  |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------|
| P302 + P352        | IF ON SKIN: Wash with plenty of water/soap.                                                                                      |
| P304 + P340        | IF INHALED: Remove person to fresh air and keep comfortable for breathing.                                                       |
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |

**Hazardous ingredients for labeling**

Isocyanic acid, polymethylenepolyphenylene ester

**Special rules for supplemental label elements for certain mixtures**

Contains isocyanates. May produce an allergic reaction.

**2.3. Other hazards**

No information available.

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

**3.1. Substances**

not applicable

**3.2. Mixtures**

**Hazardous ingredients**

| CAS No   | EC No     | Name                              | [% weight] | Classification according to Regulation (EC) No 1272/2008 [CLP/ GHS]                                                                                          |
|----------|-----------|-----------------------------------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 101-68-8 | 202-966-0 | diphenylmethane-4,4'-diisocyanate | < 10       | Carc. 2, H351 / Acute Tox. 4, H332 / STOT RE 2, H373 / Eye Irrit. 2, H319 / STOT SE 3, H335 / Skin Irrit. 2, H315 / Resp. Sens. 1, H334 / Skin Sens. 1, H317 |

### Hazardous ingredients (continued)

| CAS No    | EC No | Name                                                                                           | [% weight] | Classification according to Regulation (EC) No 1272/2008 [CLP/ GHS]                                                                                          |
|-----------|-------|------------------------------------------------------------------------------------------------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 9016-87-9 |       | Isocyanic acid, polymethylenepolyphenylene ester                                               | 50 - 100   | Acute Tox.4, H332 / Skin. Irrit.2, H315 / Eye Irrit. 2, H319 / Resp. Sens. 1, H334 / Skin. Sens. 1, H317 / Carc. 2, H351 / STOT SE 3, H335 / STOT RE 2, H373 |
|           |       | Reaction mass of 4,4'-methylenediphenyldiisocyanate and o-(p-isocyanatobenzyl)phenylisocyanate | 5 - 15     | Carc. 2, H351 / Acute Tox. 4, H332 / STOT RE 2, H373 / Eye Irrit. 2, H319 / STOT SE 3, H335 / Skin Irrit. 2, H315 / Resp. Sens. 1, H334 / Skin Sens. 1, H317 |

### REACH

| CAS No | Name                                                                                           | REACH registration number |
|--------|------------------------------------------------------------------------------------------------|---------------------------|
|        | Reaction mass of 4,4'-methylenediphenyldiisocyanate and o-(p-isocyanatobenzyl)phenylisocyanate | 01-2119457015-45          |

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### In case of inhalation

Ensure of fresh air.

Seek medical treatment immediately.

#### In case of skin contact

In case of contact with skin wash off immediately with soap and water.

Consult a doctor if skin irritation persists.

#### In case of eye contact

In case of contact with eyes rinse with plenty of water carefully. In the event of persistent symptoms seek medical treatment.

#### In case of ingestion

Do not induce vomiting.

Call for a doctor immediately.

Rinse out mouth thoroughly with water.

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

No information available.

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

#### Treatment (Advice to doctor)

Treat symptoms.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

Foam

Dry powder

Gaseous fire-extinguishing substance

Carbon dioxide

**Unsuitable extinguishing media**  
water

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

In case of fire formation of dangerous gases possible.

In the event of fire the following can be released:

Nitrogen oxides (NO<sub>x</sub>)

Carbon monoxide (CO)

Carbon dioxide (CO<sub>2</sub>)

Hydrogen cyanide (HCN)

**5.3. Advice for firefighters**

**Special protective equipment for fire-fighters**

Use breathing apparatus with independent air supply.

Wear full protective clothing.

**Additional information**

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

Collect contaminated firefighting water separately, must not be discharged into the drains.

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**SECTION 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

**For non-emergency personnel**

Personal protection by wearing close-fitting protective clothing and breathing apparatus.

High risk of slipping due to leakage/spillage of product.

**6.2. Environmental precautions**

Do not discharge into the drains or bodies of water..

Do not discharge into the subsoil/soil.

**6.3. Methods and material for containment and cleaning up**

Take up with absorbent material (e.g. sand).

Do not take up with sawdust or other combustible materials.

After taking up the material dispose according to regulation.

**Additional Information**

Informations for disposal see chapter 13.

**6.4. Reference to other sections**

No information available.

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**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

**Advice on safe handling**

Care for thoroughly room ventilation, if necessary use in well ventilated area with local exhaust ventilation at workplace.

No special measures necessary if used correctly.

Take the usual precautions when handling with chemicals.

**General protective measures**

Avoid contact with eyes and skin

Do not inhale gases/vapours/aerosols.

**Hygiene measures**

At work do not eat, drink and smoke.  
Remove soiled or soaked clothing immediately.  
Wash hands before breaks and after work.

**Advice on protection against fire and explosion**

No special measures necessary.

**7.2. Conditions for safe storage, including any incompatibilities**

**Requirements for storage rooms and vessels**

Keep in closed original container.  
Do not use containers, leads, pipes a.s.o. of copper or copper-containing alloys.  
Use steel or stainless steel containers.

**Advice on storage compatibility**

Keep away from water.

**Further information on storage conditions**

Store closed container at cool and aired place.  
Protect from frost.  
Protect from atmospheric moisture and water

**7.3. Specific end use(s)**

No information available.

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

**8.1. Control parameters**

**8.2. Exposure controls**

**Respiratory protection**

If ventilation insufficient, wear respiratory protection.

**Hand protection**

Synthetic rubber gloves  
PVC gloves

**Eye protection**

tightly fitting goggles

**Other protection measures**

protective clothing

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**SECTION 9: Physical and chemical properties**

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

**Appearance**

liquid

**Colour**

dark brown

**Odour**

characteristic

**Odour threshold**

not determined

**Important health, safety and environmental information**

|                                                          | Value                      | Temperature | at             | Method            | Remark            |
|----------------------------------------------------------|----------------------------|-------------|----------------|-------------------|-------------------|
| <b>pH value</b>                                          | not applicable             |             |                |                   |                   |
| <b>Acid number</b>                                       | not applicable             |             |                |                   |                   |
| <b>boiling range</b>                                     | > 300 °C                   |             |                |                   |                   |
| <b>melting point</b>                                     | not determined             |             |                |                   |                   |
| <b>Flash point</b>                                       | 220 °C                     |             |                | closed cup        |                   |
| <b>Vapourisation rate</b>                                | not determined             |             |                |                   |                   |
| <b>Flammable (solid)</b>                                 | not applicable             |             |                |                   |                   |
| <b>Flammability (gas)</b>                                | not applicable             |             |                |                   |                   |
| <b>Ignition temperature</b>                              | not determined             |             |                |                   |                   |
| <b>Self ignition temperature</b>                         | > 600 °C                   |             |                |                   |                   |
| <b>Lower explosion limit</b>                             | not applicable             |             |                |                   |                   |
| <b>Upper explosion limit</b>                             | not applicable             |             |                |                   |                   |
| <b>Vapour pressure</b>                                   | not determined             |             |                |                   |                   |
| <b>Relative density</b>                                  | ca. 1,23 g/cm <sup>3</sup> | 23 °C       |                | DIN EN ISO 2811-1 |                   |
| <b>Bulk density</b>                                      | not applicable             |             |                |                   |                   |
| <b>Vapour density</b>                                    | 8,5                        |             |                |                   |                   |
| <b>Solubility in water</b>                               |                            |             |                |                   | Reacts with water |
| <b>Solubility/other</b>                                  |                            |             | not determined |                   |                   |
| <b>Partition coefficient n-octanol/water (log P O/W)</b> | not applicable             |             |                |                   |                   |
| <b>Decomposition temperature</b>                         | No data available          |             |                |                   |                   |
| <b>Viscosity dynamic</b>                                 | ca. 100 mPa*s              | 23 °C       |                | DIN EN ISO 2555   |                   |
| <b>Solvent separation test</b>                           | not applicable             |             |                |                   |                   |
| <b>Solvent content</b>                                   | 0 %                        |             |                |                   |                   |

|                               | Value          | Temperature | at | Method | Remark |
|-------------------------------|----------------|-------------|----|--------|--------|
| <b>Water content</b>          | not applicable |             |    |        |        |
| <b>Solids content</b>         | not applicable |             |    |        |        |
| <b>Combustion value</b>       | not applicable |             |    |        |        |
| <b>Oxidising properties</b>   |                |             |    |        |        |
| no                            |                |             |    |        |        |
| <b>Explosive properties</b>   |                |             |    |        |        |
| no                            |                |             |    |        |        |
| <b>9.2. Other information</b> |                |             |    |        |        |
| no                            |                |             |    |        |        |

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No information available.

### 10.2. Chemical stability

No information available.

### 10.3. Possibility of hazardous reactions

No information available.

### 10.4. Conditions to avoid

Reaction with water, with formation of carbon dioxide.

Reactions with alcohols, amines, aqueous acids and alkalies.

### 10.5. Incompatible materials

#### Substances to avoid

Reactions with acids.

Reactions with water.

Reactions with alcohols.

Reactions with alkalies.

Reactions with amines.

### 10.6. Hazardous decomposition products

Carbon monoxide

Carbon dioxide

HCN

Nitrous oxides (NO<sub>x</sub>)

Hydrocarbons

### Thermal decomposition

Remark No decomposition if used as directed.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity/Irritation/Sensitization

|                                         | Value/Validation | Species        | Method                 | Remark |
|-----------------------------------------|------------------|----------------|------------------------|--------|
| <b>LD50 acute oral</b>                  | > 5000 mg/kg     | rat            |                        |        |
| <b>LD50 acute dermal</b>                | > 5000 mg/kg     | rabbit         |                        |        |
| <b>LC50 acute inhalation</b>            | 0,49 mg/l (4 h)  | rat            |                        |        |
| <b>Skin irritation</b>                  |                  | not determined |                        |        |
| <b>Eye irritation</b>                   |                  | not determined |                        |        |
| <b>Skin sensitization</b>               | non-sensitizing  | Guinea pig     | OECD 406               |        |
| <b>Sensitization respiratory system</b> | sensitizing      | Guinea pig     | No official guidelines |        |

#### Subacute Toxicity - Carcinogenicity

|                              | Value                                                                             | Species | Method   | Validation    |
|------------------------------|-----------------------------------------------------------------------------------|---------|----------|---------------|
| <b>Subacute Toxicity</b>     | not determined                                                                    |         |          |               |
| <b>Subchronic Toxicity</b>   | not determined                                                                    |         |          |               |
| <b>Chronic Toxicity</b>      | NOEC dusts and mist 0,2 mg/m3<br>Combined Chronic Toxicity / Carcinogenic Studies | rat     | OECD 453 | positive      |
| <b>Mutagenicity</b>          | OECD 474 Mammalian Erythrocyte Micronucleus Test                                  |         | OECD 474 | not mutagenic |
| <b>Reproduction-Toxicity</b> | NOAEL 12 mg/m3<br>Prenatal Developmental Toxicity Study                           | rat     | OECD 414 |               |
| <b>Carcinogenicity</b>       | Combined Chronic Toxicity / Carcinogenic Studies                                  | rat     | OECD 453 | positive      |

#### Specific target organ toxicity (single exposure)

No data available

#### Specific target organ toxicity (repeated exposure)

No data available

#### Aspiration hazard

No data available



#### Experiences made from practice

Sensitization through inhalation possible.  
Sensitization through skin contact possible.  
Irritates respiratory tract.  
Irritates eyes and skin.

#### Additional information

The declarations of toxicology refer to main component.

## SECTION 12: Ecological information

### 12.1. Toxicity

#### Ecotoxicological effects

|                 | Value                   | Species          | Method                       | Validation |
|-----------------|-------------------------|------------------|------------------------------|------------|
| <b>Fish</b>     | LC50 > 1000 mg/l (96 h) |                  | OECD 203                     |            |
| <b>Daphnia</b>  | EC50 > 1000 mg/l (24 h) | Daphnia magna    | OECD 202                     |            |
| <b>Algae</b>    | EC50 > 1640 mg/l (72 h) |                  | OECD 201, cell reproduction  |            |
| <b>Bacteria</b> | EC50 > 100 mg/l (3 h)   | activated sludge | OECD 209, oxygen consumption |            |

### 12.2. Persistence and degradability

|                                        | Elimination rate | Method of analysis                                 | Method     | Validation                    |
|----------------------------------------|------------------|----------------------------------------------------|------------|-------------------------------|
| <b>Physico-chemical degradability</b>  | not determined   |                                                    |            |                               |
| <b>Biological degradability</b>        | 0 % (28 d)       | Inherent Biodegradability: Modified MITI Test (II) | OECD 302 C | not degradable                |
| <b>Degradability</b>                   |                  |                                                    |            | not readily degradable        |
| <b>Biological eliminability</b>        |                  |                                                    |            | Readily eliminable from water |
| <b>Degradability according to WRMG</b> | not determined   |                                                    |            |                               |

### 12.3. Bioaccumulative potential

not determined

### 12.4. Mobility in soil

No data available

### 12.5. Results of PBT and vPvB assessment

No information available.

### 12.6. Other adverse effects

**Behaviour in sewage plant**

The product can cause foaming in sewage treatment plants.

**Respiration inhibition of activated sludge**

|       | Value          | Method | Remark |
|-------|----------------|--------|--------|
| EC 50 | not determined |        |        |

**Additional ecological information**

|     | Value          | Method | Remark |
|-----|----------------|--------|--------|
| OC  | not determined |        |        |
| COD | not determined |        |        |
| BOD | not determined |        |        |

**Contains following heavy metals and compounds of the 76/464/EWG**

no

**General regulation**

Product is not allowed to be discharged into aquatic environment, drains or sewage treatment plants.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Waste code No.**

08 05 01\*

16 03 05\*

**Name of waste**

waste isocyanates

organic wastes containing hazardous substances

Wastes marked with an asterisk are considered to be hazardous waste pursuant to Directive 2008/98/EC on hazardous waste.

**Recommendations for the product**

In accordance with regulations for special waste, must be taken to a special waste disposal.

**Recommendations for packaging**

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

Packaging that cannot be cleaned should be disposed of like the product.

**SECTION 14: Transport information**

|                                  | ADR/RID | IMDG | IATA-DGR |
|----------------------------------|---------|------|----------|
| 14.1. UN number                  | -       | -    | -        |
| 14.2. UN proper shipping name    | -       | -    | -        |
| 14.3. Transport hazard class(es) | -       | -    | -        |

|                                                                                                                                    | ADR/RID | IMDG | IATA-DGR |
|------------------------------------------------------------------------------------------------------------------------------------|---------|------|----------|
| <b>14.4. Packing group</b>                                                                                                         | -       | -    | -        |
| <b>14.5. Environmental hazards</b>                                                                                                 | -       | -    | -        |
| <b>14.6. Special precautions for user</b><br>No information available.                                                             |         |      |          |
| <b>14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b><br>No information available.                 |         |      |          |
| <b>Land and inland navigation transport ADR/RID</b><br>No dangerous goods as defined by these transport regulations.               |         |      |          |
| <b>Marine transport IMDG</b><br>No dangerous goods as defined by these transport regulations.                                      |         |      |          |
| <b>Air transport ICAO/IATA-DGR</b><br>No dangerous goods as defined by these transport regulations.                                |         |      |          |
| <b>Transport/further information</b><br>No dangerous goods as defined by the transport regulations - ADR/RID, IMDG, ICAO/IATA-DGR. |         |      |          |

## SECTION 15: Regulatory information

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

#### National regulations

#### Other regulations, restrictions and prohibition regulations

Work medicine Principles G27: "Isocyanate"

ZH 1/34 "Data Sheet: Polyurethane manufacture / Isocyanate (M 044)"

ZH 1/129 "Data Sheet: Irritating substances / corrosive substances (M 004)"

**Water hazard class** 1 Mixture-WGK

**Decree for case of interference/remarks** Accident decree, addendum II: not named.

### 15.2. Chemical Safety Assessment

No information available.

## SECTION 16: Other information

### Recommended uses and restrictions

National and local regulations concerning chemicals shall be observed.

### Further information

The information contained herein is based on the state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

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 (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).
- H373 May cause damage to organs (or state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).