

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

1.1. Product identifier	
Name of product	PUR-O-RIP PLUS B-Komponente
<b>1.2. Relevant identified uses of the substance</b> No information available.	e or mixture and uses advised against
1.3. Details of the supplier of the safety data s	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 Internet www.tph-bausysteme.com
Advice	E-mail (competent person): 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 healt	h hazards	
H315 Causes skin	irritation.	
H317 May cause a	n allergic skin reaction	L.
H319 Causes serio	ous eye irritation.	
H332 Harmful if inl	haled.	
H334 May cause a	llergy or asthma symp	toms or breathing difficulties if inhaled.
H335 May cause re	espiratory irritation.	
H351 Suspected of	f causing cancer.	
H373 May cause d	amage to organs throu	igh 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]



Signal word Danger

#### 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.

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

#### Hazardous ingredients for labeling

4,4'-methylenediphenyl diisocyanate, Isocyanic acid, polymethylenepolyphenylene ester, o-(p-isocyanatobenzyl)phenyl isocyanate

#### 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	4,4'-methylenediphenyl diisocyanate	35 - 50	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



CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/ GHS]
5873-54-1	227-534-9	o-(p-isocyanatobenzyl)phenyl isocyanate	35 - 50	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
9016-87-9		Isocyanic acid, polymethylenepolyphenylene ester	10 - 20	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

# **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 thoroughly with plenty of water and seek medical advice.

#### 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

**Physician's information / possible symptoms** The following symptoms may occur: Coughing Asthmatic complaints

# 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 (NOx) Carbon monoxide (CO) Carbon dioxide (CO2) 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.

# **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.

# **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

Storage group 10

# 7.3. Specific end use(s)

No information available.

# **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

# **SECTION 9: Physical and chemical properties**

9.1. Information on basic physical and	d chemical properties
Appearance	Colour
liquid	dark brown

Odour characteristic

**Odour threshold** 



# not determined

#### Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
pH value	not applicable				
Acid number	not applicable				
boiling range	> 300 °C				
melting point	not determined				
Flash point	184 °C			closed cup	
Vapourisation rate	not determined				
Flammable (solid)	not determined				
Flammability (gas)	not determined				
Ignition temperature	not determined				
Self ignition temperature	> 600 °C				
Lower explosion limit	not applicable				
Upper explosion limit	not applicable				
Vapour pressure	not determined				
Relative density	ca. 1,21 g/cm3	23 °C		DIN EN ISO 2811-1	
Bulk density	not applicable				
Vapour density	8,5				
Solubility in water					Reacts with water
Solubility/other			not determined		
Partition coefficient n- octanol/water (log P O/W)	not applicable				
Decomposition temperature	not determined				
Viscosity dynamic	ca. 30 mPa*s	23 °C		DIN EN ISO 2555	
Solvent separation test	not determined				
Solvent content	0 %				



	Value	Temperature	at	Method	Remark
Water content	0 %				
Solids content	not applicable				
Combustion value	not applicable				
Oxidising properties no					
Explosive properties no					
9.2. Other information					

# **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 (NOx) 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
LD50 acute oral	> 5000 mg/kg	rat		
LD50 acute dermal	> 9400 mg/kg	rabbit		
LC50 acute inhalation	0,49 mg/l (4 h)	rat		
Skin irritation		not determined		
Eye irritation		not determined		
Skin sensitization	non-sensitizing	Guinea pig	OECD 406	
Sensitization respiratory system	sensitizing	Guinea pig	No official guidelines	

### Subacute Toxicity - Carcinogenicity

	Value	Species	Method	Validation	
Subacute Toxicity	not determined				
Subchronic Toxicity	not determined				
Chronic Toxicity	NOEC dusts and mist 0,2 mg/m3 Combined Chronic Toxicity / C	arcinogenic Studies	OECD 453		
Mutagenicity	OECD 474 Mammalian Erythro	ocyte Micronucleus Test	OECD 474	not mutagenic	
Reproduction- Toxicity	NOAEL 12 mg/m3 Prenatal Developmental Toxicit	rat ty Study	OECD 414		
Carcinogenicity	Combined Chronic Toxicity / C	rat arcinogenic Studies	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					



**Toxicity test (Additional information)** no

#### 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**

Lootoxicolog	Value	Species	Method	Validation
Fish	LC50 > 1000 mg/l (96 h)		OECD 203	
Daphnia	EC50 > 1000 mg/l (48 h)		OECD 202	
Algae	not determined			
Bacteria	EC50 > 100 mg/l (3 h)		OECD 209	

#### 12.2. Persistence and degradability

	Elimination rate	Method of analysis	Method	Validation
Physico- chemical degradability	not determined			
Biological degradability	0 % (28 d)		OECD 302 C	
Degradability	not determined			
Biological eliminability	not determined			
Degradability according to WRMG	not determined			

#### 12.3. Bioaccumulative potential

The product has not been tested. Because of the product's consistency and low solubility in water bioavailability is not likely.

**12.4. Mobility in soil** No data available

**12.5. Results of PBT and vPvB assessment** No information available.

#### 12.6. Other adverse effects

No data available



Behaviour in sewage plant not determined

Respiration inhibition of activated sluge				
	Value	Method	Remark	
EC 50	not determined			
Additional ecological i	Additional ecological information			
_	Value	Method	Remark	
00	not determined			
COD	not determined			
BOD	not determined			
ΑΟΧ	The product contains organically bound halogen in accordance with the formulation. It can contribute to the adsorbable organic halogen value in the effluent from sewage treatment plants.			

# 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. The information to ecology refers to main component.

# **SECTION 13: Disposal considerations**

13.1. Waste treatment methods	
Waste code No.	Name of waste
08 05 01*	waste isocyanates
16 03 05*	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 fot 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	-	-	-



	ADR/RID	IMDG	IATA-DGR
14.3. Transport hazard class(es)	-	-	-
14.4. Packing group	-	-	-
14.5. Environmental hazards	-	-	-
<b>14.6. Special precaution</b> No information available.	s for user		

#### **14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** No information available.

#### Land and inland navigation transport ADR/RID

No dangerous goods as defined by these transport regulations.

#### Marine transport IMDG

No dangerous goods as defined by these transport regulations.

#### Air transport ICAO/IATA-DGR

No dangerous goods as defined by these transport regulations.

#### Transport/further information

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 1/118 "Working with health hazard substances (for the workers) (M 050)" MAL-Code: 00-5 (Denmark) Water hazard class 1 Mixture-WGK

Water Hazard Blass	
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).