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

1.1. Product identifier

Name of product FOAM SEAL 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
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 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.**
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.

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
4,4'-methylenediphenyl diisocyanate, Isocyanic acid, polymethylenepolyphenylene ester

Special rules for supplemental label elements for certain mixtures
Contains isocyanates. May produce an allergic reaction.

2.3. Other hazards
Results of PBT and vPvB assessment
The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

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**	**30 - 60**	**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	60 - 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

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
Neoprene gloves

Eye protection
tightly fitting goggles

Other protection measures
protective clothing

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Colour	Odour
liquid	dark brown	characteristic

Odour threshold
not determined

Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
pH value	not applicable				

	Value	Temperature	at	Method	Remark
Acid number	not applicable				
boiling range	245 °C				
melting point	No data available				
Flash point	230 °C			closed cup	
Vapourisation rate	No data available				
Flammable (solid)	No data available				
Flammability (gas)	No data available				
Ignition temperature	No data available				
Self ignition temperature	No data available				
Lower explosion limit	not applicable				
Upper explosion limit	not applicable				
Vapour pressure	No data available				
Relative density	ca. 1,23 g/cm3	23 °C		DIN EN ISO 2811-1	
Bulk density	not applicable				
Vapour density	No data available				
Solubility in water					Reacts with water
Solubility/other			not determined		
Partition coefficient n-octanol/water (log P O/W)	not applicable				
Decomposition temperature	No data available				
Viscosity dynamic	ca. 250	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
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 (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	irritant	rabbit		
Eye irritation	non-irritant	rabbit eye		
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	No information available.			
Subchronic Toxicity	No information available.			
Chronic Toxicity	NOEC dusts and mist 0,2 mg/m3 Combined Chronic Toxicity / Carcinogenic Studies		OECD 453	
Mutagenicity	OECD 474 Mammalian Erythrocyte Micronucleus Test		OECD 474	not mutagenic
Reproduction-Toxicity	NOAEL 12 mg/m3 Prenatal Developmental Toxicity Study	rat	OECD 414	
Carcinogenicity	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
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
The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Other adverse effects
No information available.

Behaviour in sewage plant
not determined

Respiration inhibition of activated sluge

	Value	Method	Remark
EC 50	not determined		

Additional ecological information

	Value	Method	Remark
OC	not determined		
COD	not determined		
BOD	not determined		
AOX	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	-	-	-
14.3. Transport hazard class(es)	-	-	-

	ADR/RID	IMDG	IATA-DGR
14.4. Packing group	-	-	-
14.5. Environmental hazards	-	-	-

14.6. Special precautions for user
No information available.

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"
MAL-Code: 00-5 (Denmark)
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.

Indication of changes: "!" = Data changed compared with the previous version. Previous version: 1.6

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).