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

1.1. Product identifier

Name of product HYDROPOX G 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	**H302**	
Acute Tox. 4	**H312**	
Skin Corr. 1B	**H314**	
Skin Corr. 1C	**H314**	
Skin Sens. 1	**H317**	
Aquatic Chronic 3	**H412**	

Hazard statements for health hazards

H302 + H312	**Harmful if swallowed or in contact with skin.**
H314	**Causes severe skin burns and eye damage.**
H317	**May cause an allergic skin reaction.**

Hazard statements for environmental hazards

H412	**Harmful to aquatic life with long lasting effects.**

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]

GHS05

GHS07

Signal word
Danger

Hazard statements for health hazards

H302 + H312	**Harmful if swallowed or in contact with skin.**
H314	**Causes severe skin burns and eye damage.**
H317	**May cause an allergic skin reaction.**

Hazard statements for environmental hazards

H412	**Harmful to aquatic life with long lasting effects.**

Precautionary Statements

Prevention

P280	Wear protective gloves/protective clothing/eye protection/face protection.

Response

P301 + P330 + P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
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.
P311	Call a POISON CENTER/doctor.

Hazardous ingredients for labeling
3-aminomethyl-3,5,5-trimethylcyclohexylamine, benzyl-alcohol

2.3. Other hazards
No information available.

! SECTION 3: Composition/ information on ingredients

3.1. Substances
not applicable

3.2. Mixtures
Description
Hardener

! Hazardous ingredients

CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]
100-51-6	**202-859-9**	**benzyl-alcohol**	**25 - 50**	**Acute Tox. 4, H332 / Acute Tox. 4, H302 / Eye Irrit.2, H319**
2855-13-2	**220-666-8**	**3-aminomethyl-3,5,5-trimethylcyclohexylamine**	**25 - 50**	**Acute Tox. 4, H312 / Acute Tox. 4, H302 / Skin Corr. 1B, H314 / Skin Sens. 1, H317 / Aquatic Chronic 3, H412**

Hazardous ingredients (continued)

CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/ GHS]
103-83-3	**203-149-1**	**benzyldimethylamine**	**2 < 5**	**Flam. Liq. 3, H226 / Acute Tox. 4, H332 / Acute Tox. 4, H312 / Acute Tox. 4, H302 / Skin Corr. 1B, H314 / Aquatic Chronic 3, H412**

REACH

CAS No	Name	REACH registration number
100-51-6	benzyl-alcohol	01-2119492630-38-XXXX
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine	01-2119514687-32-XXXX
103-83-3	benzyldimethylamine	01-2119529232-48-XXXX

! **Additional advice**
This product does not contain mandatory reporting substances, included in EU lists or which give rise to particular concerns (SVHC) in concentration >= 0.1% (Regulation (EC) No 1907/2006 (REACH), Article 59).

SECTION 4: First aid measures

4.1. Description of first aid measures

General information
Remove contaminated soaked clothing immediately.
If threatening unconsciousness,position and transport in recovery position
Symptoms of poisoning may not occur for many hours, therefore keep under medical supervision for at least 48 hours.

In case of inhalation
Ensure of fresh air.
Refer for medical treatment.

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
Call for a doctor immediately.
Rinse out mouth and give plenty of water to drink.

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
Dry powder
Carbon dioxide
Water spray jet

Unsuitable extinguishing media
Full water jet

5.2. Special hazards arising from the substance or mixture
No information available.

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
Keep people away and stay on the upwind side.
Use personal protective clothing.

6.2. Environmental precautions
Do not discharge into the drains/surface waters/groundwater.
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, kieselguhr, acid binder, general-purpose binder, sawdust).
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.

General protective measures
Avoid contact with eyes and skin

Hygiene measures
At work do not eat, drink and smoke.
Remove soiled or soaked clothing immediately.
Keep separated from food and feed.
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
Provide floor with bunding.
Keep only in original container.

Advice on storage compatibility
no

Further information on storage conditions
Store closed container at cool and aired place.

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
Short-term: filter apparatus, filter AX, otherwise environment-independent breathing apparatus.

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 chemical properties

Appearance	Colour	Odour
liquid	light yellow	similar to amine

Odour threshold
not determined

Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
pH value	10	20 °C	20 g/l		

	Value	Temperature	at	Method	Remark
Acid number	not determined				
boiling range	> 200 °C				
stock point	-35 °C				
Flash point	101 °C				
Vapourisation rate	not determined				
Flammable (solid)	not applicable				
Flammability (gas)	not applicable				
Ignition temperature	380 °C				
Self ignition temperature	no				
Lower explosion limit	1,2 Vol-%				
Upper explosion limit	13 Vol-%				
Vapour pressure	0,3 hPa	20 °C			
Relative density	ca. 0,99 g/cm3	23 °C		DIN EN ISO 2811-1	
Bulk density	not applicable				
Vapour density	not determined				
Solubility in water					partially miscible
Solubility/other					soluble in most organic solvents
Partition coefficient n-octanol/water (log P O/W)	not determined				
Decomposition temperature	No data available				
Viscosity dynamic	ca. 20 - 40 mPa*s	23 °C		DIN EN ISO 2555	
Solvent separation test	not determined				
Solvent content	0 %				
Water content	not determined				

	Value	Temperature	at	Method	Remark
Solids content	not applicable				
Combustion value	not applicable				

Oxidising properties
no

Explosive properties
no

9.2. Other information
Product smells offensive.

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
None, if handled according to order.

10.5. Incompatible materials
Substances to avoid
Reactions with acids.

10.6. Hazardous decomposition products
No dangerous composition products during appropriate storage and handling.

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	1230 mg/kg	rat		
LD50 acute dermal	2000 mg/kg	rabbit		
LC50 acute inhalation	not determined			

	Value/Validation	Species	Method	Remark
Skin irritation	corrosive			
Eye irritation	corrosive			
Skin sensitization	sensitizing			
Sensitization respiratory system	sensitizing			

Subacute Toxicity - Carcinogenicity

	Value	Species	Method	Validation
Subacute Toxicity	not determined			
Subchronic Toxicity	not determined			
Chronic Toxicity	not determined			
Mutagenicity	not determined			
Reproduction-Toxicity	not determined			
Carcinogenicity	not determined			

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
Frequent persistent contact with the skin may cause skin irritation.

Additional information
Toxical dates refer to solvent.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicological effects

	Value	Species	Method	Validation
Fish	LC50 646 mg/l (48 h)	Leuciscus idus		
Daphnia	EC50 400 mg/l (96 h)	Daphnia magna		
Algae	EC50 640 mg/l (96 h)	Scenedesmus subspicatus		
Bacteria	not determined			

12.2. Persistence and degradability

	Elimination rate	Method of analysis	Method	Validation
Physico-chemical degradability	not determined			
Biological degradability	not determined			
Degradability	not determined			
Biological eliminability	not determined			
Degradability according to WRMG	not determined			

12.3. Bioaccumulative potential

No specific test data available. No indications of critical characteristics.

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

not determined

Respiration inhibition of activated sluge

	Value	Method	Remark
EC 50	not determined		

Additional ecological information

	Value	Method	Remark
OC	not determined		

	Value	Method	Remark
COD	not determined		
BOD	not determined		
AOX	not applicable		

Contains following heavy metals and compounds of the 76/464/EWG
no

General regulation
Because of damage to water organism do not fill in presurge.
Toxic to fishes.
Do not allow uncontrolled leakage of product into the environment.
Product is not allowed to be discharged into aquatic environment, drains or sewage treatment plants.
The information to ecology refers to solvent.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste code No.	Name of waste
08 01 11*	waste paint and varnish containing organic solvents or other 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	2735	2735	2735
14.2. UN proper shipping name	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (3-aminomethyl-3,5,5-trimethylcyclohexylamine)	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (3-aminomethyl-3,5,5-trimethylcyclohexylamine)	Polyamines, liquid, corrosive, n.o.s. (3-aminomethyl-3,5,5-trimethylcyclohexylamine)
14.3. Transport hazard class(es)	8	8	8
14.4. Packing group	III	III	III

	ADR/RID	IMDG	IATA-DGR
14.5. Environmental hazards	No	No	No

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
Hazard label(s) 8
tunnel restriction code E
Classification code C7

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
MAL-Code: 00-5 (Denmark)
MAL-kode (Denmark): 00-5 (Ready-for-use mixture)
ZH 1/129 "Data Sheet: Irritating substances / corrosive substances (M 004)"
ZH 1/301 "Data Sheet: Polyester and Epoxide resins (M 023)"

Water hazard class 1 Mixture-WGK

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: 1.5

H226 Flammable liquid and vapour.
H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H412 Harmful to aquatic life with long lasting effects.