

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

1.1. Product identifier

Name of product HYDROPOX FLEX F 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	
Skin Corr. 1B	H314	
Eye Dam. 1	H318	
Skin Sens. 1	H317	
Aquatic Chronic 3	H412	

Hazard statements for health hazards

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.

Hazard statements for environmental hazards

H412	Harmful to aquatic life with long lasting effects.
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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 Harmful if swallowed.
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

P270 Do not eat, drink or smoke when using this product.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response

P301 + P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER/doctor.
P330 Rinse mouth.

Hazardous ingredients for labeling

3-aminomethyl-3,5,5-trimethylcyclohexylamine, benzyl-alcohol, benzyldimethylamine

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	40 < 60	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 / Eye Dam. 1, H318

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	benzyl dimethylamine	>= 2,5 < 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	benzyl dimethylamine	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

DNEL-/PNEC-values

DNEL worker

CAS No	Substance name	Value	Code	Remark
100-51-6	benzyl-alcohol	110 mg/m3	DNEL acute inhalative (systemic)	
		40 mg/kg bw/day	DNEL acute dermal, short-term (systemic)	
		22 mg/m3	DNEL acute inhalative (systemic)	
		8 mg/kg bw/day	DNEL long-term dermal (systemic)	
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine	0,073 mg/m3	DNEL long-term inhalative (local)	

DNEL Consumer

CAS No	Substance name	Value	Code	Remark
100-51-6	benzyl-alcohol	20 mg/kg bw/day	DNEL short-term oral (acute)	
		5,4 mg/m3	DNEL long-term inhalative (systemic)	
		27 mg/m3	DNEL acute inhalative (systemic)	
		4 mg/kg bw/day	DNEL long-term dermal (systemic)	
		20 mg/kg bw/day	DNEL acute dermal, short-term (systemic)	
		4 mg/kg bw/day	DNEL long-term oral (repeated)	

DNEL-/PNEC-values (continued)

CAS No	Substance name	Value	Code	Remark
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine	0,526 mg/kg bw/day	DNEL long-term oral (repeated)	

PNEC

CAS No	Substance name	Value	Code	Remark
100-51-6	benzyl-alcohol	1 mg/l	PNEC aquatic, freshwater	
		0,1 mg/l	PNEC aquatic, marine water	
		5,27 mg/kg	PNEC sediment, freshwater	
		0,527 mg/kg	PNEC sediment, marine water	
		39 mg/l	PNEC sewage treatment plant (STP)	
		0,456 mg/kg dw	PNEC soil	
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine	0,578 mg/kg	PNEC sediment, marine water	
		5,784 mg/kg	PNEC sediment, freshwater	
		0,006 mg/l	PNEC aquatic, marine water	
		0,06 mg/l	PNEC aquatic, freshwater	
		0,23 mg/l	PNEC aquatic, intermittent release	
		3,18 mg/l	PNEC sewage treatment plant (STP)	

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

liquid

Colour

light yellow

Odour

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/cm ³	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 sludge

	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.

08 01 11*

Name of waste

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 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	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.

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.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H412	Harmful to aquatic life with long lasting effects.