

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

### 1.1. Product identifier

**Name of product** RUBBERTITE AI-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** Research & Development  
E-mail (competent person):  
[j.guenther@tph-bausysteme.com](mailto:j.guenther@tph-bausysteme.com)

### 1.4. Emergency telephone number

**Emergency advice** Phone +49 (0)40 / 52 90 66 78-52

## 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
Skin Irrit. 2	H315	
Eye Irrit. 2	H319	
Skin Sens. 1	H317	

#### Hazard statements for health hazards

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.

#### 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

**Signal word**  
Warning

**Hazard statements for health hazards**

H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.

**Precautionary Statements**

**Prevention**

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

**Response**

P302 + P352 IF ON SKIN: Wash with plenty of water/...  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337 + P313 If eye irritation persists: Get medical advice/attention.

**Storage**

P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

**Disposal**

P501 Dispose of contents/container to local waste disposal company.

**Hazardous ingredients for labeling**

2-hydroxyethyl methacrylate

**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]
868-77-9	212-782-2	2-hydroxyethyl methacrylate	50 - 100	Eye Irrit. 2, H319 / Skin Irrit. 2, H315 / Skin Sens. 1, H317

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

**General information**

Remove contaminated soaked clothing immediately.  
In the event of persistent symptoms receive medical treatment.

**In case of inhalation**

Ensure of fresh air.  
In the event of symptoms refer for medical treatment.

**In case of skin contact**

In case of contact with skin wash off with soap and water.  
Consult a doctor if skin irritation persists.

**In case of eye contact**

In case of contact with eyes rinsing with plenty of lukewarm water carefully and seek for medical treatment.

**In case of ingestion**

Do not induce vomiting.

Call for a doctor immediately.

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

**Physician's information / possible symptoms**

Allergic symptoms

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

**Treatment (Advice to doctor)**

Treat symptoms.

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**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

**Suitable extinguishing media**

Foam

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.

**Additional information**

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

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**SECTION 6: Accidental release measures**

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

**For non-emergency personnel**

Ensure adequate ventilation.

Use personal protective clothing.

Keep away sources of ignition.

Use breathing apparatus if exposed to vapours/dust/aerosol.

**6.2. Environmental precautions**

Do not discharge into the drains/surface waters/groundwater.

**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.

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**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.

**General protective measures**

Do not inhale vapours.

Avoid contact with eyes and skin

**Hygiene measures**

At work do not eat, drink and smoke.

Remove 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**

Prevent penetration into the ground.

**Advice on storage compatibility**

no

**Further information on storage conditions**

Keep barrel tightly closed.

Protect from heat and direct solar radiation.

Keep container in a well-ventilated place

Storage temperature between 10°C to 30°C (=50°F to 86°F).

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

No information available.

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

**8.1. Control parameters**

No information available.

**8.2. Exposure controls**

**Respiratory protection**

If ventilation insufficient, wear respiratory protection.

Filter A or environment-independent breathing apparatus

**Hand protection**

Synthetic rubber 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**  
colourless

**Odour**  
ester-like

**Odour threshold**  
not determined

### Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
<b>pH value</b>	6 - 8	20 °C			
<b>Acid number</b>	not determined				
<b>boiling range</b>	> 180 °C				
<b>melting range</b>	< -30 °C				
<b>Flash point</b>	not determined				
<b>Vapourisation rate</b>	not determined				
<b>Flammable (solid)</b>	not applicable				
<b>Flammability (gas)</b>	not applicable				
<b>Ignition temperature</b>	not applicable				
<b>Self ignition temperature</b>	not applicable				
<b>Lower explosion limit</b>	not applicable				
<b>Upper explosion limit</b>	not applicable				
<b>Vapour pressure</b>	< 0,1 hPa	20 °C			
<b>Relative density</b>	ca. 1,06 g/cm <sup>3</sup>	20 °C		DIN EN ISO 3675	
<b>Bulk density</b>	not applicable				
<b>Vapour density</b>	not determined				
<b>Solubility in water</b>					soluble
<b>Solubility/other</b>					soluble in organic solvent

	Value	Temperature	at	Method	Remark
<b>Partition coefficient n-octanol/water (log P O/W)</b>	not determined				
<b>Decomposition temperature</b>	not determined				
<b>Viscosity dynamic</b>	ca. 5 mPa*s	20 °C		DIN EN ISO 2555	
<b>Solvent content</b>	0 %				
<b>Water content</b>	No data available				
<b>Solids content</b>	No data available				
<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

No hazardous reactions known.

### 10.5. Incompatible materials

#### Substances to avoid

Reactions with reducing agents, heavy metals.

Reactions with peroxides and other radical components.

If heating up polymerisation.

### 10.6. Hazardous decomposition products

No hazardous decomposition products known.

### Thermal decomposition

Remark No decomposition if used as directed.

### Additional information

Unstable product may polymerize spontaneously.

## 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>	> 3000 mg/kg	rabbit		
<b>LC50 acute inhalation</b>	not determined			
<b>Skin irritation</b>	non-irritant	rabbit	Draize-method	
<b>Eye irritation</b>	irritant	rabbit eye	Draize-method	
<b>Skin sensitization</b>	sensitizing	Guinea pig	OECD	
<b>Sensitization respiratory system</b>	sensitizing	Guinea pig		

#### Subacute Toxicity - Carcinogenicity

	Value	Species	Method	Validation
<b>Subacute Toxicity</b>	not determined			
<b>Subchronic Toxicity</b>	not determined			
<b>Chronic Toxicity</b>	not determined			

#### Mutagenicity

No experimental information on genotoxicity in vivo available.

#### Reproduction-Toxicity

No indications of toxic effects were observed in reproduction studies in animals.

Value	Species	Method	Validation
<b>Carcinogenicity</b>			No indications of carcinogenic effects are available from long-term trials.
<b>Specific target organ toxicity (single exposure)</b>			
No data available			
<b>Specific target organ toxicity (repeated exposure)</b>			
No data available			
<b>Aspiration hazard</b>			
No data available			
<b>Toxicity test (Additional information)</b>			
no			
<b>Experiences made from practice</b>			
Possible sensitization in case of persons suffering from hypersensitivity.			
Allergic reactions possible ( analogy-reasons ).			
Frequent persistent contact with the skin may cause skin irritation.			
Irritates eyes and skin.			
<b>Additional information</b>			
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 > 100 mg/l (96 h)	Oryzias Latipes	OECD 203	
<b>Daphnia</b>	EC50 380 mg/l (48 h)	Daphnia magna	OECD 202	
<b>Algae</b>	EC50 345 mg/l (72 h)	Selenastrum capricornutum	OECD 201	
<b>Bacteria</b>	EC50 > 3000 mg/l (16 h)	Pseudomona fluoresc.		

### 12.2. Persistence and degradability

	Elimination rate	Method of analysis	Method	Validation
<b>Physico-chemical degradability</b>	not determined			
<b>Biological degradability</b>	84 % (28 d)		OECD 301 D	readily degradable
<b>Degradability</b>	not determined			
<b>Biological eliminability</b>	not determined			

	Elimination rate	Method of analysis	Method	Validation
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**Degradability according to WRMG**

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**

No data available

**Behaviour in sewage plant**

Obtain approval of the relevant authorities before discharging into sewage treatment plants.

**Respiration inhibition of activated sludge**

	Value	Method	Remark
<b>EC 50</b>	not determined		

**Additional ecological information**

	Value	Method	Remark
<b>OC</b>	not determined		
<b>COD</b>	not determined		
<b>BOD</b>	not determined		
<b>AOX</b>	not applicable		

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

no

**General regulation**

Product is not allowed to be discharged into the ground water or aquatic environment.

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.**

07 02 08\*

**Name of waste**

other still bottoms and reaction residues

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)	-	-	-
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

Tableaux des maladies professionnelles (TMP) - N° 65 (France)

MAL-Code: 3-5 (Denmark)

MAL-kode (Denmark): 3-5 (Ready-for-use mixture)

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

**Water hazard class** 1 Mixture-WGK

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**15.2. Chemical Safety Assessment**

No information available.

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**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.

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

### 1.1. Product identifier

**Name of product** RUBBERTITE All-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** Research & Development  
E-mail (competent person):  
j.guenther@tph-bausysteme.com

### 1.4. Emergency telephone number

**Emergency advice** Phone +49 (0)40 / 52 90 66 78-52

## 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	
Eye Dam. 1	H318	
Skin Sens. 1B	H317	

### 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.
H318	Causes serious eye damage.

### 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.

**Precautionary Statements**

**Prevention**

P260 Do not breathe dust/mist.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.

**Response**

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/...  
P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Disposal**

P501 Dispose of contents/container to local waste disposal company.

**Hazardous ingredients for labeling**

2-dimethylaminoethyl methacrylate

**Additional information**

**Remark**

Nota D

**2.3. Other hazards**

No information available.

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

**3.1. Substances**

not applicable

**3.2. Mixtures**

**Description**

Accelerator

**Hazardous ingredients**

CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/ GHS]
2867-47-2	220-688-8	2-dimethylaminoethyl methacrylate	50 - 100	Acute Tox. 4, H302 / Acute Tox. 4, H312 / Skin Corr. 1B, H314 / Skin Sens. 1B, H317 / Eye Dam. 1, H318

**REACH**

CAS No	Name	REACH registration number
2867-47-2	2-dimethylaminoethyl methacrylate	01-2119474677-22-0000

## **SECTION 4: First aid measures**

### **4.1. Description of first aid measures**

#### **General information**

Remove contaminated soaked clothing immediately.  
In the event of persistent symptoms receive medical treatment.

#### **In case of inhalation**

Remove the casualty into fresh air and keep him immobile.  
In the event of symptoms 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 thoroughly with plenty of water and seek medical advice.

#### **In case of ingestion**

Do not induce vomiting.  
Call for a doctor immediately.

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

#### **Physician's information / possible symptoms**

Allergic symptoms

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

#### **Treatment (Advice to doctor)**

Treat symptoms.

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## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

#### **Suitable extinguishing media**

Alcohol-resistant foam  
Dry powder  
Carbon dioxide  
Water spray jet

#### **Unsuitable extinguishing media**

Full water jet

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

In the event of fire the following can be released:

Nitrogen gases (NO<sub>x</sub>)  
Carbon monoxide (CO)  
Carbon dioxide (CO<sub>2</sub>)

### **5.3. Advice for firefighters**

#### **Special protective equipment for fire-fighters**

Use breathing apparatus with independent air supply ( isolated ).

#### **Additional information**

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

## **SECTION 6: Accidental release measures**

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

#### **For non-emergency personnel**

Ensure adequate ventilation.  
Use personal protective clothing.  
Keep away sources of ignition.  
Use breathing apparatus if exposed to vapours/dust/aerosol.

### **6.2. Environmental precautions**

Do not discharge into the drains/surface waters/groundwater.

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

Pump off larger quantity.  
Take up with absorbent material (e.g. sand, kieselguhr, acid binder, general-purpose binder, sawdust).  
Disposal according to regulations.

#### **Additional Information**

Informations for safe handling see chapter 7.  
Informations for personal protective equipment see chapter 8.  
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.

#### **General protective measures**

Do not inhale vapours.  
Avoid contact with eyes and skin

#### **Hygiene measures**

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

#### **Advice on protection against fire and explosion**

Keep away from sources of ignition - No smoking  
Take precautionary measures against static discharges.

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

#### **Requirements for storage rooms and vessels**

Keep in closed original container.  
Prevent penetration into the ground.

#### **Advice on storage compatibility**

Store at a distance of water and iron.

#### **Further information on storage conditions**

Keep container tightly closed and store at cool and aired place.  
Store only at temperature of 30°C maximum (=86°F).

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Protect from direct solar radiation.

**Information on storage stability**

Storage time: 12 months.

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

No information available.

## SECTION 8: Exposure controls/personal protection

**8.1. Control parameters**

No information available.

**8.2. Exposure controls**

**Respiratory protection**

Breathing apparatus in the event of high concentrations.

Short term: filter apparatus, filter A

**Hand protection**

Synthetic rubber gloves

**Eye protection**

tightly fitting goggles

**Other protection measures**

protective clothing

**Appropriate engineering controls**

no

## SECTION 9: Physical and chemical properties

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

**Appearance**

liquid

**Colour**

colourless

**Odour**

similar to amine

**Odour threshold**

not determined

**Important health, safety and environmental information**

	Value	Temperature	at	Method	Remark
<b>pH value</b>	8	20 °C	500 g/l		
<b>Acid number</b>	not applicable				
<b>boiling temperature</b>	ca. 187 °C		1013 hPa		
<b>melting temperature</b>	ca. -30 °C				
<b>Flash point</b>	ca. 68 °C			closed cup	
<b>Vapourisation rate</b>	not determined				
<b>Flammable (solid)</b>	not determined				

	Value	Temperature	at	Method	Remark
<b>Flammability (gas)</b>	not determined				
<b>Ignition temperature</b>	ca. 200 °C			DIN 51794	
<b>Self ignition temperature</b>	no				
<b>Lower explosion limit</b>	not determined				
<b>Upper explosion limit</b>	not determined				
<b>Vapour pressure</b>	ca. 0,58 hPa	20 °C			
<b>Relative density</b>	ca. 0,93 g/cm3	20 °C		DIN EN ISO 3675	
<b>Bulk density</b>	not applicable				
<b>Vapour density</b>	ca. 5,4	20 °C			
<b>Solubility in water</b>	106,1 g/l	25 °C			
<b>Solubility/other</b>	not determined				
<b>Partition coefficient n-octanol/water (log P O/W)</b>	1,13	25 °C		OECD 107	
<b>Decomposition temperature</b>	No data available				
<b>Viscosity dynamic</b>	ca. 3,5 mPa*s	20 °C		DIN EN ISO 2555	
<b>Solvent separation test</b>	not determined				
<b>Solvent content</b>	no				
<b>Water content</b>	not determined				
<b>Solids content</b>	not applicable				
<b>Combustion value</b>	not determined				
<b>Oxidising properties</b>	not determined				
<b>Explosive properties</b>	not determined				
<b>9.2. Other information</b>	in water slow hydrolyse				

## 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

Can polymerise exothermically if heated to temperatures > 30°C, exposed to air, sunlight or by addition of free radical initiators.

### 10.5. Incompatible materials

#### Substances to avoid

Reactions with strong oxidising agents.

Reactions with reducing agents.

Reactions with peroxides and other radical components.

### 10.6. Hazardous decomposition products

No dangerous composition products during appropriate storage and handling.

### Thermal decomposition

Remark No decomposition if used as directed.

### Additional information

Unstable product may polymerize spontaneously.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity/Irritation/Sensitization

	Value/Validation	Species	Method	Remark
<b>LD50 acute oral</b>	> 2000 mg/kg	rat	OECD 401	
<b>LD50 acute dermal</b>	> 2000 mg/kg	rat	OECD 402	
<b>LC50 acute inhalation</b>	not determined			
<b>Skin irritation</b>	corrosive	rabbit	Fed. Reg. 29-FR 13009, 1964	24 h
<b>Eye irritation</b>	corrosive	rabbit eye	Fed. Reg. 29-FR 13009, 1964	2 h

	Value/Validation	Species	Method	Remark
<b>Skin sensitization</b>	Sensitisation due to skin contact cannot be ruled out.	Guinea pig	OECD 406	
<b>Sensitization respiratory system</b>	non-sensitizing	Guinea pig	OECD 406	

#### Subacute Toxicity - Carcinogenicity

	Value	Species	Method	Validation
<b>Subacute Toxicity</b>	NOAEL 40 - 1000 mg/kg (49 d) Sub-acute oral toxicity	rat	OECD 422	No indications of critical characteristics.
<b>Subchronic Toxicity</b>	not determined			
<b>Chronic Toxicity</b>	not determined			

#### Mutagenicity

No experimental information on genotoxicity in vivo available.

#### Reproduction-Toxicity

No indications of toxic effects were observed in reproduction studies in animals.

#### Carcinogenicity

not determined

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

No indications of critical properties.

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

No indications of critical properties.

#### Aspiration hazard

No indications of critical properties.

#### Toxicity test (Additional information)

no

#### Experiences made from practice

Sensitization through skin contact possible.  
Allergic reactions possible ( analogy-reasons ).  
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 19,1 mg/l (96 h)	Oryzias Latipes	OECD 203	
<b>Daphnia</b>	EC50 33 mg/l (48 h)	Daphnia magna	OECD 202	
<b>Algae</b>	EC50 69,7 mg/l (72 h)	Selenastrum capricornutum	OECD 201	
<b>Bacteria</b>	EC10 42,7 mg/l (16 h)	Pseudomonas putida		

### 12.2. Persistence and degradability

	Elimination rate	Method of analysis	Method	Validation
<b>Physico-chemical degradability</b>	not determined			
<b>Biological degradability</b>	95,3 % (28 d)	DOC decrease	OECD 301E / EEC 84/449 C3	readily degradable
	The product is readily biodegradable to OECD criteria.			
<b>Biological eliminability</b>	not determined			
<b>Degradability according to WRMG</b>	not determined			

### 12.3. Bioaccumulative potential

Because of the n-octanol/water distribution coefficient (log K o/w) accumulation in organisms is possible.

### 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
<b>EC 50</b>	not determined		

#### Additional ecological information

	Value	Method	Remark
<b>OC</b>	not determined		
<b>COD</b>	not determined		

	Value	Method	Remark
<b>BOD</b>	not determined		
<b>AOX</b>	not applicable		

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

no

**General regulation**

Product is not allowed to be discharged into the ground water or aquatic environment.

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.**

07 02 08\*

**Name of waste**

other still bottoms and reaction residues

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

**Recommendations for the product**

Remove in accordance with local official regulations.

Dispose of as hazardous waste.

**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
<b>14.1. UN number</b>	2522	2522	2522
<b>14.2. UN proper shipping name</b>	2-DIMETHYLAMINOETHYL METHACRYLATE (2-dimethylaminoethyl methacrylate)	2-DIMETHYLAMINOETHYL METHACRYLATE (2-dimethylaminoethyl methacrylate)	2-Dimethylaminoethyl methacrylate (2-dimethylaminoethyl methacrylate)
<b>14.3. Transport hazard class(es)</b>	6.1	6.1	6.1
<b>14.4. Packing group</b>	II	II	II
<b>14.5. Environmental hazards</b>	No	No	No

**14.6. Special precautions for user**

No information available.

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**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) 6.1

tunnel restriction code D/E

Classification code T1

---

**SECTION 15: Regulatory information**

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture  
Other regulations (EU)**

Observe regulation 98/24/EC for employee health protection against the threat of chemical substances in the workplace.

**National regulations**

**Restriction of occupation**

Observe employment restrictions for young people.

Observe employment restrictions for mothers-to-be and nursing mothers.

**Other regulations, restrictions and prohibition regulations**

MAL-Code: 3-5 (Denmark)

MAL-kode (Denmark): 3-5 (Ready-for-use mixture)

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

**Water hazard class** 1 list substance

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

**15.2. Chemical Safety Assessment**

Chemical safety assessments for substances in this mixture were not carried out.

---

**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.

- 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.

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

### 1.1. Product identifier

**Name of product** RUBBERTITE BII-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** Research & Development  
E-mail (competent person):  
[j.guenther@tph-bausysteme.com](mailto:j.guenther@tph-bausysteme.com)

### 1.4. Emergency telephone number

**Emergency advice** Phone +49 (0)40 / 52 90 66 78-52

## 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
Ox. Sol. 3	H272	
Acute Tox. 4	H302	
Skin Irrit. 2	H315	
Eye Irrit. 2	H319	
Resp. Sens. 1	H334	
Skin Sens. 1	H317	
STOT SE 3	H335	

#### Hazard statements for physical hazards

H272 May intensify fire; oxidiser.

#### Hazard statements for health hazards

H302 Harmful if swallowed.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H335 May cause respiratory irritation.

#### 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]**



GHS03



GHS07



GHS08

**Signal word**  
Danger

**Hazard statements for physical hazards**

H272 May intensify fire; oxidiser.

**Hazard statements for health hazards**

H302 Harmful if swallowed.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.

**Precautionary Statements**

**Prevention**

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P262 Do not get in eyes, on skin, or on clothing.

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

**Response**

P302 + P352 IF ON SKIN: Wash with plenty of water/... .

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**

disodium-peroxodisulphate

**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]
7775-27-1	231-892-1	disodium-peroxodisulphate	50 - 100	Ox. Sol. 3, H272 / Acute. Tox. 4, H302 / Eye Irrit. 2, H319 / STOT SE 3, H335 / Skin Irrit. 2, H315 / Resp. Sens. 1, H334 / Skin. Sens. 1, H317

## **SECTION 4: First aid measures**

### **4.1. Description of first aid measures**

#### **General information**

Remove contaminated soaked clothing immediately.  
Adhere to personal protective measures when giving first aid.  
Take away from danger area and lay down affected person.

#### **In case of inhalation**

Remove the casualty into fresh air and keep him immobile.  
In the event of symptoms refer for medical treatment.

#### **In case of skin contact**

In case of contact with skin wash off with soap and water.  
Consult a doctor if skin irritation persists.

#### **In case of eye contact**

Medical treatment by eye specialist.  
In case of contact with eyes rinsing with plenty of lukewarm water carefully and seek for medical treatment.

#### **In case of ingestion**

Do not induce vomiting.  
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**

#### **Physician's information / possible symptoms**

Asthmatic complaints  
Allergic symptoms

### **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 fire-extinguishing substance  
Carbon dioxide  
water mist

#### **Unsuitable extinguishing media**

Full water jet

### **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:  
Sulfur oxide

### **5.3. Advice for firefighters**

#### **Special protective equipment for fire-fighters**

Use breathing apparatus with independent air supply.  
Wear full protective clothing.

---

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**Additional information**

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.

Avoid dust formation.

Use personal protective clothing.

**6.2. Environmental precautions**

Do not discharge into surface waters/groundwater.

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 mechanically and send for disposal.

**Additional Information**

Informations for personal protective equipment see chapter 8.

**6.4. Reference to other sections**

No information available.

---

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

**Advice on safe handling**

Avoid the formation and deposition of dust.

Do not return residues to the storage containers.

**General protective measures**

Avoid contact with eyes and skin

Do not inhale dust.

**Hygiene measures**

At work do not eat, drink and smoke.

Remove soiled or soaked clothing immediately.

Keep away from food and drink.

Wash hands before breaks and after work.

**Advice on protection against fire and explosion**

Substance/product in the dry state supports fire.

Keep at a distance of combustible materials.

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

**Requirements for storage rooms and vessels**

Keep in closed original container.

Prevent penetration into the ground.

Do not use metallic container.

**Advice on storage compatibility**

Do not store with combustible materials.

Do not store together with metals.

---

**Further information on storage conditions**

Protect from direct solar radiation.  
Protect from wetness.  
Protect of heat.  
Product is hygroscopic.  
Protect from contamination.

**Information on storage stability**

Storage time: 12 months.

**Storage group** 5.1B

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

No information available.

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

**8.1. Control parameters**

**Additional advice**

no

**8.2. Exposure controls**

**Respiratory protection**

If ventilation insufficient, wear respiratory protection.  
Particle filter P2

**Hand protection**

Synthetic rubber gloves

**Eye protection**

tightly fitting goggles

**Other protection measures**

protective overalls

**Appropriate engineering controls**

no

**SECTION 9: Physical and chemical properties**

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

**Appearance**

crystalline

**Colour**

white

**Odour**

odourless

**Odour threshold**

not determined

**Important health, safety and environmental information**

	Value	Temperature	at	Method	Remark
<b>pH value</b>	ca. 4,3	20 °C	10 g/l		
<b>Acid number</b>	not applicable				
<b>boiling point</b>	not applicable				

	Value	Temperature	at	Method	Remark
<b>melting point</b>	> 180 °C				
<b>Flash point</b>	not applicable				
<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>	no				
<b>Lower explosion limit</b>	not applicable				
<b>Upper explosion limit</b>	not applicable				
<b>Vapour pressure</b>	not applicable				
<b>Relative density</b>	1,2 g/cm <sup>3</sup>	20 °C			
<b>Bulk density</b>	not determined				
<b>Vapour density</b>	not applicable				
<b>Solubility in water</b>	556 g/l	20 °C			soluble
<b>Solubility/other</b>				not determined	
<b>Partition coefficient n-octanol/water (log P O/W)</b>	not applicable				
<b>Decomposition temperature</b>	not determined				
<b>Viscosity dynamic</b>	not applicable				
<b>Viscosity kinematic</b>	not applicable				
<b>Solvent separation test</b>	not applicable				
<b>Solvent content</b>	no				
<b>Water content</b>	not determined				
<b>Solids content</b>	100 %				
<b>Combustion value</b>	No data available				

**Oxidising properties**

yes

**Explosive properties**

no

**9.2. Other information**

Product effects hygroscopic.

## 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.

Reactions with impurities.

Reactions with reducing agents.

Reactions with organic substances.

Reactions with various metals.

Reactions with alkalies.

**10.6. Hazardous decomposition products**

Sulphur trioxide

Sulphurous oxides (SO<sub>x</sub>)

Sulphuric acid

Oxygen

**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>	920 mg/kg	rat		Information concerns to main component.
<b>LD50 acute dermal</b>	> 10000 mg/kg	rat		

	Value/Validation	Species	Method	Remark
<b>LC50 acute inhalation</b>	> 5,1 mg/l (4 h)	rat		
<b>Skin irritation</b>	irritant			
<b>Eye irritation</b>	irritant			
<b>Skin sensitization</b>	sensitizing			
<b>Sensitization respiratory system</b>	sensitizing			

#### Subacute Toxicity - Carcinogenicity

	Value	Species	Method	Validation
<b>Subacute Toxicity</b>	not determined			
<b>Subchronic Toxicity</b>	not determined			
<b>Chronic Toxicity</b>	not determined			
<b>Mutagenicity</b>	not determined			
<b>Reproduction-Toxicity</b>	not determined			
<b>Carcinogenicity</b>	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

Toxicological data refer to waterfree substance.

## SECTION 12: Ecological information

### 12.1. Toxicity

#### Ecotoxicological effects

	Value	Species	Method	Validation
<b>Fish</b>	LC50 323 mg/l (96 h)	Poecilia reticulata		
<b>Daphnia</b>	EC50 357 mg/l (24 h)	Daphnia magna		
<b>Algae</b>	EC10 33 mg/l (96 h)	Scenedesmus quadricauda		
<b>Bacteria</b>	EC10 1000 mg/l (24 h)	Escherichia coli		

### 12.2. Persistence and degradability

	Elimination rate	Method of analysis	Method	Validation
<b>Physico-chemical degradability</b>	not determined			
<b>Biological degradability</b>	not determined			
<b>Degradability</b>	not determined			
<b>Biological eliminability</b>	not determined			
<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

not determined

#### Respiration inhibition of activated sludge

	Value	Method	Remark
<b>EC 50</b>	not determined		

#### Additional ecological information

	Value	Method	Remark
<b>OC</b>	No data available		

	Value	Method	Remark
<b>COD</b>	No data available		
<b>BOD</b>	No data available		
<b>AOX</b>	No data available		

#### General regulation

Product is not allowed to be discharged into the ground water or aquatic environment.

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

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Recommendations for the product

Remove in accordance with local official regulations.

#### 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
<b>14.1. UN number</b>	1505	1505	1505
<b>14.2. UN proper shipping name</b>	SODIUM PERSULPHATE (disodium-peroxodisulphate)	SODIUM PERSULPHATE (disodium-peroxodisulphate)	Sodium persulphate (disodium-peroxodisulphate)
<b>14.3. Transport hazard class(es)</b>	5.1	5.1	5.1
<b>14.4. Packing group</b>	III	III	III
<b>14.5. Environmental hazards</b>	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) 5.1

tunnel restriction code E

Classification code O2

---

## 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

ZH 1/118 "Working with health hazard substances (for the workers) (M 050)"

MAL-Code: 3-5 (Denmark)

MAL-kode (Denmark): 3-5 (Ready-for-use mixture)

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

**Water hazard class** 1 list substance

### 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.

- H272 May intensify fire; oxidiser.
- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H335 May cause respiratory irritation.

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

### 1.1. Product identifier

Name of product RUBBERTITE BL-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 Research & Development  
E-mail (competent person):  
j.guenther@tph-bausysteme.com

### 1.4. Emergency telephone number

Emergency advice  
Phone +49 (0)40 / 52 90 66 78-52

## 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
Ox. Sol. 3	H272	
Acute Tox. 4	H302	
Skin Irrit. 2	H315	
Eye Irrit. 2	H319	
Resp. Sens. 1	H334	
Skin Sens. 1	H317	
STOT SE 3	H335	

#### Hazard statements for physical hazards

H272 May intensify fire; oxidiser.

#### Hazard statements for health hazards

H302 Harmful if swallowed.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H335 May cause respiratory irritation.

#### 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]**



GHS03



GHS07



GHS08

**Signal word**  
Danger

**Hazard statements for physical hazards**

H272 May intensify fire; oxidiser.

**Hazard statements for health hazards**

H302 Harmful if swallowed.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.

**Precautionary Statements**

**Prevention**

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P262 Do not get in eyes, on skin, or on clothing.

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

**Response**

P302 + P352 IF ON SKIN: Wash with plenty of water/... .

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**

disodium-peroxodisulphate

**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]
7775-27-1	231-892-1	disodium-peroxodisulphate	50 - 100	Ox. Sol. 3, H272 / Acute. Tox. 4, H302 / Eye Irrit. 2, H319 / STOT SE 3, H335 / Skin Irrit. 2, H315 / Resp. Sens. 1, H334 / Skin. Sens. 1, H317

## **SECTION 4: First aid measures**

### **4.1. Description of first aid measures**

#### **General information**

Remove contaminated soaked clothing immediately.  
Adhere to personal protective measures when giving first aid.  
Take away from danger area and lay down affected person.

#### **In case of inhalation**

Remove the casualty into fresh air and keep him immobile.  
In the event of symptoms refer for medical treatment.

#### **In case of skin contact**

In case of contact with skin wash off with soap and water.  
Consult a doctor if skin irritation persists.

#### **In case of eye contact**

Medical treatment by eye specialist.  
In case of contact with eyes rinsing with plenty of lukewarm water carefully and seek for medical treatment.

#### **In case of ingestion**

Do not give liquid drinks.  
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**

Asthmatic complaints  
Allergic symptoms

### **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 fire-extinguishing substance  
Carbon dioxide  
water mist

#### **Unsuitable extinguishing media**

Full water jet

### **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:  
Sulfur oxide

### **5.3. Advice for firefighters**

#### **Special protective equipment for fire-fighters**

Use breathing apparatus with independent air supply.  
Wear full protective clothing.

---

---

**Additional information**

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.

Avoid dust formation.

Use personal protective clothing.

**6.2. Environmental precautions**

Do not discharge into surface waters/groundwater.

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 mechanically and send for disposal.

**Additional Information**

Informations for personal protective equipment see chapter 8.

**6.4. Reference to other sections**

No information available.

---

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

**Advice on safe handling**

Avoid the formation and deposition of dust.

Do not return residues to the storage containers.

**General protective measures**

Avoid contact with eyes and skin

Do not inhale dust.

**Hygiene measures**

At work do not eat, drink and smoke.

Remove soiled or soaked clothing immediately.

Keep away from food and drink.

Wash hands before breaks and after work.

**Advice on protection against fire and explosion**

Substance/product in the dry state supports fire.

Keep at a distance of combustible materials.

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

**Requirements for storage rooms and vessels**

Keep in closed original container.

Prevent penetration into the ground.

Do not use metallic container.

**Advice on storage compatibility**

Do not store with combustible materials.

Do not store together with metals.

**Further information on storage conditions**

Protect from direct solar radiation.  
Protect from wetness.  
Protect of heat.  
Product is hygroscopic.  
Protect from contamination.

**Information on storage stability**

Storage time: 12 months.

**Storage group** 5.1B

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

No information available.

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

**8.1. Control parameters**

**Additional advice**

no

**8.2. Exposure controls**

**Respiratory protection**

If ventilation insufficient, wear respiratory protection.  
Particle filter P2

**Hand protection**

Synthetic rubber gloves

**Eye protection**

tightly fitting goggles

**Other protection measures**

protective overalls

**Appropriate engineering controls**

no

**SECTION 9: Physical and chemical properties**

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

**Appearance**

crystalline

**Colour**

yellowish

**Odour**

odourless

**Odour threshold**

not determined

**Important health, safety and environmental information**

	Value	Temperature	at	Method	Remark
<b>pH value</b>	ca. 4,3	20 °C	10 g/l		
<b>Acid number</b>	not applicable				
<b>boiling point</b>	not applicable				

	Value	Temperature	at	Method	Remark
<b>melting point</b>	> 180 °C				
<b>Flash point</b>	not applicable				
<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>	no				
<b>Lower explosion limit</b>	not applicable				
<b>Upper explosion limit</b>	not applicable				
<b>Vapour pressure</b>	not applicable				
<b>Relative density</b>	ca. 2,59 g/cm <sup>3</sup>	20 °C			
<b>Bulk density</b>	ca. 1,15 g/cm <sup>3</sup>				
<b>Vapour density</b>	not applicable				
<b>Solubility in water</b>	not determined	20 °C			soluble
<b>Solubility/other</b>				not determined	
<b>Partition coefficient n-octanol/water (log P O/W)</b>	not applicable				
<b>Decomposition temperature</b>	not determined				
<b>Viscosity dynamic</b>	not applicable				
<b>Viscosity kinematic</b>	not applicable				
<b>Solvent separation test</b>	not applicable				
<b>Solvent content</b>	no				
<b>Water content</b>	not determined				
<b>Solids content</b>	100 %				
<b>Combustion value</b>	No data available				

**Oxidising properties**

yes

**Explosive properties**

no

**9.2. Other information**

Product effects hygroscopic.

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**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.

Reactions with impurities.

Reactions with reducing agents.

Reactions with organic substances.

Reactions with various metals.

Reactions with alkalies.

**10.6. Hazardous decomposition products**

Sulphur trioxide

Sulphurous oxides (SO<sub>x</sub>)

Sulphuric acid

Oxygen

**Thermal decomposition**

Remark No decomposition if used as directed.

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**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

**Acute toxicity/Irritation/Sensitization**

	Value/Validation	Species	Method	Remark
<b>LD50 acute oral</b>	920 mg/kg	rat		Information concerns to main component.
<b>LD50 acute dermal</b>	> 10000 mg/kg	rat		

	Value/Validation	Species	Method	Remark
<b>LC50 acute inhalation</b>	> 5,1 mg/l (4 h)	rat		
<b>Skin irritation</b>	irritant			
<b>Eye irritation</b>	irritant			
<b>Skin sensitization</b>	sensitizing			
<b>Sensitization respiratory system</b>	sensitizing			

#### Subacute Toxicity - Carcinogenicity

	Value	Species	Method	Validation
<b>Subacute Toxicity</b>	not determined			
<b>Subchronic Toxicity</b>	not determined			
<b>Chronic Toxicity</b>	not determined			
<b>Mutagenicity</b>	not determined			
<b>Reproduction-Toxicity</b>	not determined			
<b>Carcinogenicity</b>	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

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 323 mg/l (96 h)	Poecilia reticulata		
<b>Daphnia</b>	EC50 357 mg/l (24 h)	Daphnia magna		
<b>Algae</b>	EC10 33 mg/l (96 h)	Scenedesmus quadricauda		
<b>Bacteria</b>	EC10 1000 mg/l (24 h)	Escherichia coli		

### 12.2. Persistence and degradability

	Elimination rate	Method of analysis	Method	Validation
<b>Physico-chemical degradability</b>	not determined			
<b>Biological degradability</b>	not determined			
<b>Degradability</b>	not determined			
<b>Biological eliminability</b>	not determined			
<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

not determined

#### Respiration inhibition of activated sludge

	Value	Method	Remark
<b>EC 50</b>	not determined		

#### Additional ecological information

	Value	Method	Remark
<b>OC</b>	No data available		

	Value	Method	Remark
<b>COD</b>	No data available		
<b>BOD</b>	No data available		
<b>AOX</b>	No data available		

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

#### General regulation

Product is not allowed to be discharged into the ground water or aquatic environment.

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

#### Recommendations for the product

Remove in accordance with local official regulations.

#### 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
<b>14.1. UN number</b>	1505	1505	1505
<b>14.2. UN proper shipping name</b>	SODIUM PERSULPHATE (disodium-peroxodisulphate)	SODIUM PERSULPHATE (disodium-peroxodisulphate)	Sodium persulphate (disodium-peroxodisulphate)
<b>14.3. Transport hazard class(es)</b>	5.1	5.1	5.1
<b>14.4. Packing group</b>	III	III	III
<b>14.5. Environmental hazards</b>	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) 5.1

tunnel restriction code E

Classification code O2

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## 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

ZH 1/118 "Working with health hazard substances (for the workers) (M 050)"

MAL-Code: 3-5 (Denmark)

MAL-kode (Denmark): 3-5 (Ready-for-use mixture)

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

**Water hazard class** 1 Mixture-WGK

### 15.2. Chemical Safety Assessment

No information available.

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## 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.

- H272 May intensify fire; oxidiser.
- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H335 May cause respiratory irritation.