

Trade name: Hardener FH for cds-Adhesive

Version: 2.0 / EN

Date revised 12.12.2022

Substance number: 11465

Replaces Version: 1.0 / EN

Print date: 12.12.2022

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

### **1.1. Product identifier**

Hardener FH for cds-Adhesive

### **1.2. Relevant identified uses of the substance or mixture and uses advised against**

#### **Use of the substance/preparation**

coating material

### **1.3. Details of the supplier of the safety data sheet**

#### **Address/Manufacturer**

cds Polymere GmbH & Co. KG  
 Gau-Bickelheimer Str. 72  
 55576 Sprendlingen/Rhh.  
 Telephone no. +49(6701) 9350-0  
 Fax no. +49(6701) 9350-50

### **1.4. Emergency telephone number**

cds-Labor / Tel. +49 (67 01) 93 50-28 ( This number is reachable monday to friday from 8 am to 5 pm )

## **SECTION 2: Hazards identification**

### **2.1. Classification of the substance or mixture**

#### **Classification (Regulation (EC) No. 1272/2008)**

Classification (Regulation (EC) No. 1272/2008)

Skin Corr. 1A	H314
Eye Dam. 1	H318
Skin Sens. 1A	H317
Repr. 2	H361fd
STOT RE 1	H372
Aquatic Acute 1	H400
Aquatic Chronic 1	H410

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008  
 For explanation of abbreviations see section 16.

### **2.2. Label elements**

#### **Labelling according to regulation (EC) No 1272/2008**

#### **Hazard pictograms**



#### **Signal word**

Danger

#### **Hazard statements**

H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.

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H410 Very toxic to aquatic life with long lasting effects.

**Precautionary statements**

P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
 P273 Avoid release to the environment.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 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.  
 P310 Immediately call a POISON CENTER or doctor.

**Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)**

contains 3,6,9-Triazaundecan-1,11-diamin; 3-Aminopropyltriethoxysilan; 2-Piperazin-1-ylethylamin; Phenol, styrolisiert; Fettsäuren, Tallöl-, Reaktionsprodukte m. Tetraethylenpentin

**2.3. Other hazards**

No special hazards have to be mentioned.

**SECTION 3: Composition/information on ingredients****Hazardous ingredients****Fettsäuren, Tallöl-, Reaktionsprodukte m. Tetraethylenpentin**

CAS No. 68953-36-6  
 EINECS no. 273-201-6  
 Registration no. 01-2119487006-38  
 Concentration  $\geq$  25  $<$  50 %  
 Classification (Regulation (EC) No. 1272/2008)  
 Skin Corr. 1A H314  
 Skin Sens. 1 H317  
 Aquatic Acute 1 H400  
 Aquatic Chronic 1 H410

**Phenol, styrolisiert**

CAS No. 61788-44-1  
 EINECS no. 262-975-0  
 Registration no. 01-2119980970-27-XXXX  
 Concentration  $\geq$  10  $<$  25 %  
 Classification (Regulation (EC) No. 1272/2008)  
 Skin Irrit. 2 H315  
 Skin Sens. 1A H317  
 Aquatic Chronic 2 H411

**2-Piperazin-1-ylethylamin**

CAS No. 140-31-8  
 EINECS no. 205-411-0  
 Registration no. 01-2119471486-30-XXXX  
 Concentration  $\geq$  10  $<$  25 %  
 Classification (Regulation (EC) No. 1272/2008)  
 Acute Tox. 3 H311  
 Repr. 2 H361  
 STOT RE 1 H372  
 Skin Corr. 1B H314  
 Eye Dam. 1 H318  
 Acute Tox. 4 H302  
 Skin Sens. 1 H317  
 Aquatic Chronic 3 H412

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**3,6,9-Triazaundecan-1,11-diamin**

CAS No.	112-57-2				
EINECS no.	203-986-2				
Concentration	>=	10	<	25	%
Classification (Regulation (EC) No. 1272/2008)					
	Acute Tox. 4			H302	
	Acute Tox. 4			H312	
	Skin Corr. 1B			H314	
	Skin Sens. 1			H317	
	Aquatic Chronic 2			H411	

**3-Aminopropyltriethoxysilan**

CAS No.	919-30-2				
EINECS no.	213-048-4				
Registration no.	01-2119480479-24-XXXX				
Concentration	>=	5	<	10	%
Classification (Regulation (EC) No. 1272/2008)					
	Acute Tox. 4			H302	
	Skin Corr. 1B			H314	

**SECTION 4: First aid measures****4.1. Description of first aid measures****General information**

Remove contaminated, soaked clothing immediately and dispose of safely. Adhere to personal protective measures when giving first aid. Clean body thoroughly (bath, shower). In any case show the physician the Safety Data Sheet.

**After inhalation**

Ensure supply of fresh air. Remove affected person from danger area. Seek medical advice immediately.

**After skin contact**

Wash off immediately with soap and water. Seek medical advice immediately.

**After eye contact**

Separate eyelids, wash the eyes thoroughly with water (15 min.). Take medical treatment.

**After ingestion**

Call in a physician immediately and show him the Safety Data Sheet. Rinse mouth thoroughly with water. Let plenty of water be drunk in small gulps. Do not induce vomiting.

**Adhere to personal protective measures when giving first aid**

First aider: Pay attention to self-protection!

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

Until now no symptoms known so far.

**4.3. Indication of any immediate medical attention and special treatment needed****Hints for the physician / hazards**

In the case of swallowing with subsequent vomiting, aspiration of the lungs can occur which can lead to chemical pneumonia or asphyxiation.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Dry powder

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**Non suitable extinguishing media**

Full water jet

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

In case of combustion evolution of dangerous gases possible.

**5.3. Advice for firefighters****Special protective equipment for fire-fighting**

Do not inhale explosion and/or combustion gases. In case of combustion use a suitable breathing apparatus. Wear full protective suit.

**Other information**

Collect contaminated fire-fighting water separately, must not be discharged into the drains. Fire residues and contaminated fire-fighting water must be disposed of in accordance with the local regulations. Observe manufacturer's / distributor's instructions.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Use breathing apparatus if exposed to vapours/dust/aerosol. Avoid contact with skin, eyes and clothing. Refer to protective measures listed in Sections 7 and 8.

**6.2. Environmental precautions**

Prevent spread over a wide area (e.g. by containment or oil barriers). Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil. Retain and dispose of contaminated wash water. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

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

Pick up with absorbent material. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations. Containers in which spilt substance has been collected must be adequately labelled. Dispose of absorbed material in accordance with the regulations.

**6.4. Reference to other sections**

Refer to protective measures listed in Sections 7 and 8.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advice on safe handling**

Avoid formation of aerosols. Perform filling operations only at stations with exhaust ventilation facilities. Provide suitable exhaust ventilation at the processing machines. If workplace limits are exceeded, a respiratory protection approved for this particular job must be worn. Keep container tightly closed.

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep in original packaging, tightly closed. Storage rooms must be properly ventilated. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Provide solvent-resistant and impermeable floor.

**Hints on storage assembly**

Do not store together with foodstuffs.

**Storage classes**

Storage class according to TRGS 510

6.1C

Combustible substances of acute toxicity, category 3 / hazardous substances that are toxic or produce chronic effects

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**Further information on storage conditions**

Do not keep at temperatures above 20 °C.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Other information**

Contains no substances with occupational exposure limit values.

**Derived No/Minimal Effect Levels (DNEL/DMEL)****2-Piperazin-1-ylethylamin**

Reference substance	2-Piperazin-1-ylethylamin	
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	10,6	mg/m <sup>3</sup>

Type of value	2-Piperazin-1-ylethylamin	
	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Acute	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	10,6	mg/m <sup>3</sup>

Type of value	2-Piperazin-1-ylethylamin	
	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	0,015	mg/m <sup>3</sup>

Type of value	2-Piperazin-1-ylethylamin	
	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Short term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	0,08	mg/m <sup>3</sup>

Type of value	2-Piperazin-1-ylethylamin	
	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	3,33	mg/kg/d

Type of value	2-Piperazin-1-ylethylamin	
	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Short term	
Route of exposure	dermal	

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Mode of action	Systemic effects	
Concentration	20	mg/kg/d

**Phenol, styrolisiert**

Reference substance	Phenol, styrolisiert	
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	2,1	mg/kg

Type of value	Phenol, styrolisiert	
Reference group	Derived No Effect Level (DNEL)	
Duration of exposure	Worker	
Route of exposure	Long term	
Mode of action	inhalative	
Concentration	Systemic effects	mg/m <sup>3</sup>
	7,4	

**Predicted No Effect Concentration (PNEC)**

**2-Piperazin-1-ylethylamin**

Reference substance	2-Piperazin-1-ylethylamin	
Type of value	PNEC	
Type	Freshwater	
Concentration	0,058	mg/l

Type of value	2-Piperazin-1-ylethylamin	
Type	PNEC	
Concentration	Marine	mg/l
	0,0058	

Type of value	2-Piperazin-1-ylethylamin	
Type	PNEC	
Concentration	Water (intermittent release)	mg/l
	0,58	

Type of value	2-Piperazin-1-ylethylamin	
Type	PNEC	
Concentration	Sewage treatment plant (STP)	mg/l
	250	

Type of value	2-Piperazin-1-ylethylamin	
Type	PNEC	
Concentration	Sediment	mg/kg
	215	

Type of value	2-Piperazin-1-ylethylamin	
Type	PNEC	
Concentration	Marine sediment	mg/kg
	21,5	

Type of value	2-Piperazin-1-ylethylamin	
Type	PNEC	
Concentration	Soil	mg/kg
	1	

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**Phenol, styrolisiert**

Reference substance	Phenol, styrolisiert	
Type of value	PNEC	
Type	Freshwater	
Concentration	0,03	mg/l

	Phenol, styrolisiert	
Type of value	PNEC	
Type	Marine	
Concentration	0,003	mg/l

**8.2. Exposure controls****General protective and hygiene measures**

Hold emergency shower available. Hold eye wash fountain available. Do not inhale gases/vapours/aerosols. Avoid contact with skin and eyes. Do not eat, drink or smoke during work time. Storage of foodstuffs in work rooms is forbidden. Wash hands before breaks and after work. Clean skin thoroughly after work; apply skin cream.

**Respiratory protection**

If workplace limits are exceeded, a respiratory protection approved for this particular job must be worn.

**Hand protection**

Chemical resistant gloves  
Appropriate Material neoprene

**Eye protection**

Safety glasses with side protection shield; Face shield

**Body protection**

Clothing as usual in the chemical industry. Protective shoes

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

<b>Form</b>	liquid	
<b>Colour</b>	yellowish	
<b>Odour</b>	amine-like	
<b>Odour threshold</b>		
Remarks	not determined	
<b>pH value</b>		
Remarks	not determined	
<b>Melting point</b>		
Remarks	not determined	
<b>Freezing point</b>		
Remarks	not determined	
<b>Initial boiling point and boiling range</b>		
Remarks	not determined	
<b>Flash point</b>		
Value	> 100	°C
<b>Evaporation rate (ether = 1) :</b>		
Remarks	not determined	
<b>Flammability (solid, gas)</b>		

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not determined

**Upper/lower flammability or explosive limits**

Remarks not determined

**Vapour pressure**

Remarks not determined

**Vapour density**

Remarks not determined

**Density**

Value	0,96		g/cm <sup>3</sup>
Temperature	23	°C	

**Solubility in water**

Remarks not determined

**Solubility(ies)**

Remarks not determined

**Partition coefficient: n-octanol/water**

Remarks not determined

**Ignition temperature**

Remarks not determined

**Decomposition temperature**

Remarks not determined

**Viscosity**

Remarks not determined

**Explosive properties**

evaluation not determined

**Oxidising properties**

Remarks not determined

**9.2. Other information****Other information**

None known

**SECTION 10: Stability and reactivity****10.1. Reactivity**

No hazardous reactions when stored and handled according to prescribed instructions.

**10.2. Chemical stability**

No hazardous reactions known.

**10.3. Possibility of hazardous reactions**

No hazardous reactions known.

**10.4. Conditions to avoid**

No hazardous reactions known.

**10.5. Incompatible materials**

None known

**10.6. Hazardous decomposition products**

Toxic gases/vapours, Irritant gases/vapours



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## **SECTION 11: Toxicological information**

### **11.1. Information on toxicological effects**

#### **Acute oral toxicity**

ATE	7.692,30 77	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)	
Remarks	Based on available data, the classification criteria are not met.	

#### **Acute oral toxicity (Components)**

##### **3,6,9-Triazaundecan-1,11-diamin**

Species	rat	
LD50	3990	mg/kg

##### **2-Piperazin-1-ylethylamin**

Reference substance	Ethylbenzene	
Species	rat	
LD50	2140	mg/kg

##### **Phenol, styrolisiert**

Species	rat	
LD50	> 2000	mg/kg

##### **Fettsäuren,Tallöl-,Reaktionsprodukte m. Tetraethylenpentamin**

Species	rat	
LD50	> 2000	mg/kg

#### **Acute dermal toxicity**

ATE	2.717,45 61	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)	
Remarks	Based on available data, the classification criteria are not met.	

#### **Acute dermal toxicity (Components)**

##### **3,6,9-Triazaundecan-1,11-diamin**

Species	rabbit	
LD50	1260	mg/kg

##### **2-Piperazin-1-ylethylamin**

Reference substance	2-Piperazin-1-ylethylamin	
Species	rabbit	
LD50	866	mg/kg

##### **Phenol, styrolisiert**

Species	rat	
LD50	> 2000	mg/kg

#### **Acute inhalational toxicity**

Remarks	Based on available data, the classification criteria are not met.
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#### **Acute inhalative toxicity (Components)**

##### **Phenol, styrolisiert**

Species	mouse	
LC50	158,3	mg/l
Duration of exposure	4	h

#### **Skin corrosion/irritation**

evaluation	corrosive
Remarks	The classification criteria are met.

#### **Serious eye damage/irritation**

evaluation	corrosive
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Remarks The classification criteria are met.

**Sensitization**

evaluation May cause sensitization by skin contact.

Remarks The classification criteria are met.

**Subacute, subchronic, chronic toxicity**

Remarks not determined

**Mutagenicity**

Remarks Based on available data, the classification criteria are not met.

**Reproductive toxicity**

evaluation Suspected of damaging fertility. Suspected of damaging the unborn child.

Remarks The classification criteria are met.

**Carcinogenicity**

Remarks Based on available data, the classification criteria are not met.

**Specific Target Organ Toxicity (STOT)****Single exposure**

Remarks Based on available data, the classification criteria are not met.

**Repeated exposure**

Remarks The classification criteria are met.

evaluation Causes damage to organs through prolonged or repeated exposure

**Aspiration hazard**

Based on available data, the classification criteria are not met.

**Experience in practice**

Inhalation may lead to irritation of the respiratory tract.

**Other information**

No toxicological data are available.

**SECTION 12: Ecological information****12.1. Toxicity****General information**

not determined

**Fish toxicity (Components)****3,6,9-Triazaundecan-1,11-diamin**

Species	guppy (Poecilia reticulata)		
LC50	420		mg/l
Duration of exposure	96	h	

**2-Piperazin-1-ylethylamin**

Species	Fathead minnow (Pimephales promelas)		
LC50	2190		mg/l
Duration of exposure	96	h	

**Phenol, styrolisiert**

Reference substance	Phenol, styrolisiert		
Species	zebra fish (Brachydanio rerio)		
LC50	5,6		mg/l
Duration of exposure	96	h	

**Fettsäuren, Tallöl-, Reaktionsprodukte m. Tetraethylenpentamin**

Species	zebra fish (Brachydanio rerio)		
LC50	0,19		mg/l
Duration of exposure	96	h	

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**Daphnia toxicity (Components)****3,6,9-Triazaundecan-1,11-diamin**

Species	Daphnia magna		
EC50	24		mg/l
Duration of exposure	48	h	

**2-Piperazin-1-ylethylamin**

Species	Daphnia magna		
EC50	58		mg/l
Duration of exposure	48	h	

**Phenol, styrolisiert**

Reference substance	Phenol, styrolisiert		
Species	Daphnia magna		
EC50	4,6		mg/l
Duration of exposure	48	h	

**Fettsäuren,Tallöl-,Reaktionsprodukte m. Tetraethylenpentamin**

Species	Daphnia magna		
EC50	0,18		mg/l
Duration of exposure	48	h	

**Algae toxicity (Components)****3,6,9-Triazaundecan-1,11-diamin**

Species	Pseudokirchneriella subcapitata		
IC50	2		mg/l
Duration of exposure	72	h	

**2-Piperazin-1-ylethylamin**

Species	Pseudokirchneriella subcapitata		
EC50	> 1000		mg/l
Duration of exposure	72	h	

**Phenol, styrolisiert**

Reference substance	Phenol, styrolisiert		
Species	Scenedesmus subspicatus		
EL50	3,14		mg/l
Duration of exposure	72	h	

**Fettsäuren,Tallöl-,Reaktionsprodukte m. Tetraethylenpentamin**

Species	Pseudokirchneriella subcapitata		
EC50	0,638		mg/l
Duration of exposure	72	h	

**Bacteria toxicity (Components)****Fettsäuren,Tallöl-,Reaktionsprodukte m. Tetraethylenpentamin**

Species	activated sludge		
EC50	114		mg/l
Duration of exposure	3	h	

**12.2. Persistence and degradability****General information**

not determined

**12.3. Bioaccumulative potential****General information**

not determined

**Partition coefficient: n-octanol/water**

Remarks not determined

**Octanol/water partition coefficient (log Pow) (Components)**

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**3-Aminopropyltriethoxysilan**

log Pow

1,7

**12.4. Mobility in soil**

**General information**

not determined

**12.5. Results of PBT and vPvB assessment**

**General information**

not determined

**12.6. Other adverse effects**

**General information**

not determined

**General information / ecology**

Do not allow to enter soil, waterways or waste water canal. Avoid release into the atmosphere.

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

**Disposal recommendations for the product**

Allocation of a waste code number, according to the European Waste Catalogue (EWC), should be carried out in agreement with the regional waste disposal company.

**Disposal recommendations for packaging**

Packaging that cannot be cleaned should be disposed off in agreement with the regional waste disposal company.

**SECTION 14: Transport information**

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	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
Tunnel restriction code	E		
14.1. UN number	2735	2735	2735
14.2. UN proper shipping name	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (3,6,9-Triazaundecan-1,11-diamin, 2-Piperazin-1-ylethylamin)	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (3,6,9-Triazaundecan-1,11-diamin, 2-Piperazin-1-ylethylamin)	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (3,6,9-Triazaundecan-1,11-diamin, 2-Piperazin-1-ylethylamin)
14.3. Transport hazard class(es)	8	8	8
Label			
14.4. Packing group	III	III	III
Limited Quantity	5 l		
Transport category	3		
14.5. Environmental hazards	 ENVIRONMENTALLY HAZARDOUS	Marine Pollutant 	 ENVIRONMENTALLY HAZARDOUS

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### Water Hazard Class (Germany)

Water Hazard Class (Germany) WGK 2

#### VOC

VOC (EU) 6,5 % 62,4 g/l

### 15.2. Chemical safety assessment

For this preparation a chemical safety assessment has not been carried out.

## SECTION 16: Other information

### Hazard statements listed in Chapter 3

H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.

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H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H361	Suspected of damaging fertility or the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

### CLP categories listed in Chapter 3

Acute Tox. 3	Acute toxicity, Category 3
Acute Tox. 4	Acute toxicity, Category 4
Aquatic Acute 1	Hazardous to the aquatic environment, acute, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic, Category 3
Eye Dam. 1	Serious eye damage, Category 1
Repr. 2	Reproductive toxicity, Category 2
Skin Corr. 1A	Skin corrosion, Category 1A
Skin Corr. 1B	Skin corrosion, Category 1B
Skin Irrit. 2	Skin irritation, Category 2
Skin Sens. 1	Skin sensitization, Category 1
Skin Sens. 1A	Skin sensitization, Category 1A
STOT RE 1	Specific target organ toxicity - repeated exposure, Category 1

### Information about Safety Data Sheets Preparers

Oliver Nickel, o.nickel@cds-polymere.de

### Supplemental information

This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.