

Trade name: Hardener for cds-Pouring Concrete UW flex

Version: 1 / GB

Date revised: 13.06.2023

Substance number: 10285

Replaces Version: - / GB

Print date: 13.06.2023

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

### **1.1. Product identifier**

Hardener for cds-Pouring Concrete UW flex

### **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 &amp; 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)

Acute Tox. 4	H302
Skin Corr. 1	H314
Eye Dam. 1	H318
Skin Sens. 1	H317
Repr. 2	H361fd
STOT RE 2	H373
Asp. Tox. 1	H304
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**

H302

Harmful if swallowed.

H314

Causes severe skin burns and eye damage.

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H317	May cause an allergic skin reaction.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H304	May be fatal if swallowed and enters airways.
H410	Very toxic to aquatic life with long lasting effects.

**Precautionary statements**

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor.
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	2-Piperazin-1-ylethylamin; Reaction mass of (1-Phenylethyl)phenols and bis-(1-phenylethyl)phenols; Amines, coco alkyl; (Z)-octadec-9-enylamine; Benzylalcohol; 2,2,4-Trimethylhexan-1,6-Diamin; Urethane Prepolymer; 2,4,6-Tri(dimethylaminomethyl)phenol; Phenol , Methylstyrenated
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**2.3. Other hazards**

No special hazards have to be mentioned.

**SECTION 3: Composition/information on ingredients****Hazardous ingredients****Reaction mass of (1-Phenylethyl)phenols and bis-(1-phenylethyl)phenols**

EINECS no.	701-443-9
Registration no.	01-2119980970-27-XXXX
Concentration	>= 25 < 50 %
Classification (Regulation (EC) No. 1272/2008)	
	Skin Irrit. 2 H315
	Skin Sens. 1A H317
	Aquatic Chronic 2 H411

**Urethane Prepolymer**

Concentration	>= 10 < 25 %
Classification (Regulation (EC) No. 1272/2008)	
	Acute Tox. 4 H302

**(Z)-octadec-9-enylamine**

CAS No.	112-90-3
EINECS no.	204-015-5
Registration no.	01-2119473797-19-XXXX
Concentration	>= 10 < 25 %
Classification (Regulation (EC) No. 1272/2008)	
	Acute Tox. 4 H302
	Asp. Tox. 1 H304
	Skin Corr. 1B H314
	STOT SE 3 H335
	STOT RE 2 H373
	Aquatic Acute 1 H400
	Aquatic Chronic 1 H410

**Concentration limits (Regulation (EC) No. 1272/2008)**

Aquatic Acute 1	M = 10
Aquatic Chronic	M = 10

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**2-Piperazin-1-ylethylamin**

CAS No. 140-31-8  
 EINECS no. 205-411-0  
 Registration no. 01-2119471486-30-XXXX  
 Concentration  $\geq 5$  < 10 %  
 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

**Amines, coco alkyl**

CAS No. 61788-46-3  
 EINECS no. 262-977-1  
 Registration no. 01-2119473798-17-XXXX  
 Concentration  $\geq 5$  < 10 %  
 Classification (Regulation (EC) No. 1272/2008)  
 Acute Tox. 4 H302  
 Asp. Tox. 1 H304  
 Skin Corr. 1B H314  
 STOT SE 3 H335  
 STOT RE 2 H373  
 Aquatic Acute 1 H400  
 Aquatic Chronic 1 H410

Concentration limits (Regulation (EC) No. 1272/2008)

Aquatic Acute 1 M = 10  
 Aquatic Chronic 1 M = 10

**Benzylalcohol**

CAS No. 100-51-6  
 EINECS no. 202-859-9  
 Registration no. 01-2119492630-38-XXXX  
 Concentration  $\geq 1$  < 10 %  
 Classification (Regulation (EC) No. 1272/2008)  
 Acute Tox. 4 H302  
 Acute Tox. 4 H332

**2,2,4-Trimethylhexan-1,6-Diamin**

CAS No. 25513-64-8  
 EINECS no. 247-063-2  
 Registration no. 01-2119560598-25-XXXX  
 Concentration  $\geq 1$  < 5 %  
 Classification (Regulation (EC) No. 1272/2008)  
 Skin Corr. 1A H314  
 Acute Tox. 4 H302  
 Skin Sens. 1A H317  
 Eye Dam. 1 H318

**2,4,6-Tri(dimethylaminomethyl)phenol**

CAS No. 90-72-2

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EINECS no.	202-013-9		
Registration no.	01-2119560597-27-XXXX		
Concentration	>=	1	< 5 %
Classification (Regulation (EC) No. 1272/2008)			
	Skin Irrit. 2	H315	
	Eye Irrit. 2	H319	
	Acute Tox. 4	H302	

**4-methylpentan-2-one**

CAS No.	108-10-1		
EINECS no.	203-550-1		
Registration no.	01-2119473980-30-XXXX		
Concentration	>=	1	< 5 %
Classification (Regulation (EC) No. 1272/2008)			
	Flam. Liq. 2	H225	
	Eye Irrit. 2	H319	
	Acute Tox. 4	H332	
	STOT SE 3	H336	
	Carc. 2	H351	

**Phenol , Methylstyrenated**

CAS No.	68512-30-1		
EINECS no.	270-966-8		
Registration no.	01-2119555274-38-XXXX		
Concentration	>=	0,1	< 1 %
Classification (Regulation (EC) No. 1272/2008)			
	Skin Irrit. 2	H315	
	Skin Sens. 1	H317	
	Aquatic Chronic 3	H412	

**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.

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### **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

#### **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**

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**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.

**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)**

**Benzylalcohol**

Reference substance	Benzylalcohol	
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	8	mg/kg

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	22	mg/m <sup>3</sup>

Type of value	Benzylalcohol Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Acute	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	110	mg/m <sup>3</sup>

Type of value	Benzylalcohol Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Acute	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	40	mg/kg

**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

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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

Mode of action Systemic effects

Concentration 20 mg/kg/d

**Reaction mass of (1-Phenylethyl)phenols and bis-(1-phenylethyl)phenols**

Reference substance Reaction mass of (1-Phenylethyl)phenols and bis-(1-phenylethyl)phenols

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 2,87 mg/kg

Type of value Reaction mass of (1-Phenylethyl)phenols and bis-(1-phenylethyl)phenols  
 Derived No Effect Level (DNEL)

Reference group Worker

Duration of exposure Long term

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Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	1,21	mg/m <sup>3</sup>

**Amines, coco alkyl**

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	0,38	mg/m <sup>3</sup>

**Phenol , Methylstyrenated**

Reference substance	Phenol , Methylstyrenated	
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Route of exposure	dermal	
Concentration	3,5	mg/kg

Type of value	Phenol , Methylstyrenated	
Reference group	Derived No Effect Level (DNEL)	
Reference group	Worker	
Route of exposure	inhalative	
Concentration	1,4	mg/kg

**2,4,6-Tri(dimethylaminomethyl)phenol**

Reference substance	2,4,6-Tri(dimethylaminomethyl)phenol	
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	0,53	mg/m <sup>3</sup>

Type of value	2,4,6-Tri(dimethylaminomethyl)phenol	
Reference group	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	0,15	mg/kg/d

Type of value	2,4,6-Tri(dimethylaminomethyl)phenol	
Reference group	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Short term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	2,1	mg/m <sup>3</sup>

Type of value	2,4,6-Tri(dimethylaminomethyl)phenol	
Reference group	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Short term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	0,6	mg/kg/d



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**Predicted No Effect Concentration (PNEC)**

**Benzylalcohol**

Type of value	PNEC	
Type	Water	
Concentration	1	mg/l
Type of value	PNEC	
Type	Water (intermittent release)	
Concentration	2,31	mg/l
Type of value	PNEC	
Type	Saltwater	
Concentration	0,1	mg/l
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	39	mg/l
Type of value	Benzylalcohol PNEC	
Type	Freshwater sediment	
Concentration	5,27	mg/kg
Type of value	Benzylalcohol PNEC	
Type	Marine sediment	
Concentration	0,527	mg/kg
Type of value	Benzylalcohol PNEC	
Type	Soil	
Concentration	0,456	mg/kg

**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 PNEC	
Type	Marine	
Concentration	0,0058	mg/l
Type of value	2-Piperazin-1-ylethylamin PNEC	
Type	Water (intermittent release)	
Concentration	0,58	mg/l
Type of value	2-Piperazin-1-ylethylamin PNEC	
Type	Sewage treatment plant (STP)	
Concentration	250	mg/l
	2-Piperazin-1-ylethylamin	

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Type of value	PNEC	
Type	Sediment	
Concentration	215	mg/kg

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

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

**2,2,4-Trimethylhexan-1,6-Diamin**

Type of value	PNEC	
Type	Freshwater	
Concentration	0,102	mg/l

Type of value	PNEC	
Type	Marine	
Concentration	0,01	mg/l

**Reaction mass of (1-Phenylethyl)phenols and bis-(1-phenylethyl)phenols**

Reference substance	Reaction mass of (1-Phenylethyl)phenols and bis-(1-phenylethyl)phenols	
Type of value	PNEC	
Type	Freshwater	
Concentration	0,0115	mg/l

Type of value	Reaction mass of (1-Phenylethyl)phenols and bis-(1-phenylethyl)phenols	
Type	PNEC	
Concentration	Marine	
	0,00115	mg/l

**Amines, coco alkyl**

Reference substance	Amines, coco alkyl	
Type of value	PNEC	
Type	Freshwater	
Concentration	0,00026	mg/l

Type of value	Amines, coco alkyl	
Type	PNEC	
Concentration	Marine	
	0,000026	mg/l

Type of value	Amines, coco alkyl	
Type	PNEC	
Concentration	Sewage treatment plant (STP)	
	0,55	mg/l

Type of value	Amines, coco alkyl	
Type	PNEC	
Concentration	Freshwater sediment	
	0,1794	mg/kg

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Type of value	Amines, coco alkyl	
Type	PNEC	
Concentration	Marine sediment	
	0,01794	mg/kg

Type of value	Amines, coco alkyl	
Type	PNEC	
Concentration	Soil	
	10	mg/kg

**Phenol , Methylstyrenated**

Reference substance	Phenol , Methylstyrenated	
Type of value	PNEC	
Type	Freshwater	
Concentration	0,014	mg/l

Type of value	Phenol , Methylstyrenated	
Type	PNEC	
Concentration	Marine	
	0,0014	mg/l

Type of value	Phenol , Methylstyrenated	
Type	PNEC	
Concentration	Water (intermittent release)	
	0,14	mg/l

Type of value	Phenol , Methylstyrenated	
Type	PNEC	
Concentration	Sewage treatment plant (STP)	
	2,4	mg/l

Type of value	Phenol , Methylstyrenated	
Type	PNEC	
Concentration	Soil	
	212	mg/kg

Type of value	Phenol , Methylstyrenated	
Type	PNEC	
Concentration	Freshwater sediment	
	1064	mg/kg

Type of value	Phenol , Methylstyrenated	
Type	PNEC	
Concentration	Marine sediment	
	106	mg/kg

**2,4,6-Tri(dimethylaminomethyl)phenol**

Reference substance	2,4,6-Tri(dimethylaminomethyl)phenol	
Type of value	PNEC	
Type	Water	
Concentration	0,046	mg/l

Type of value	2,4,6-Tri(dimethylaminomethyl)phenol	
Type	PNEC	
Concentration	Marine	
	0,005	mg/l

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Type of value	2,4,6-Tri(dimethylaminomethyl)phenol	
Type	PNEC	
Concentration	Water (intermittent release)	0,46 mg/l
Type of value	2,4,6-Tri(dimethylaminomethyl)phenol	
Type	PNEC	
Concentration	Sewage treatment plant (STP)	0,2 mg/l
Type of value	2,4,6-Tri(dimethylaminomethyl)phenol	
Type	PNEC	
Concentration	Sediment	0,262 mg/kg
Type of value	2,4,6-Tri(dimethylaminomethyl)phenol	
Type	PNEC	
Concentration	Marine sediment	0,026 mg/kg
Type of value	2,4,6-Tri(dimethylaminomethyl)phenol	
Type	PNEC	
Concentration	Soil	0,025 mg/kg

## 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>Physical state</b>	liquid
<b>Odour</b>	amine-like
<b>Colour</b>	slightly yellowish
<b>Melting point</b>	
Remarks	not determined
<b>Freezing point</b>	
Remarks	not determined
<b>Boiling point or initial boiling point and boiling range</b>	

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Value	>	200		°C
Pressure		1013	hPa	

**Flammability**

evaluation not determined

**Upper and lower explosive limits**

Remarks not determined

**Flash point**

Value	>	100		°C
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**Ignition temperature**

Remarks not determined

**Decomposition temperature**

Remarks not determined

**pH value**

Remarks not determined

**Viscosity**

Remarks not determined

**Solubility(ies)**

Remarks not determined

**Partition coefficient n-octanol/water (log value)**

Remarks not determined

**Vapour pressure**

Value	<	1		hPa
Temperature		50	°C	

**Density and/or relative density**

Value		0,95		g/cm <sup>3</sup>
Temperature		23	°C	

**Relative vapour density**

Remarks not determined

**9.2. Other information****Odour threshold**

Remarks not determined

**Evaporation rate (ether = 1) :**

Remarks not determined

**Solubility in water**

Remarks not determined

**Explosive properties**

evaluation not determined

**Oxidising properties**

Remarks not determined

**Other information**

None known

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

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

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**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

**SECTION 11: Toxicological information****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute oral toxicity**

ATE	1.138,29	mg/kg
	84	

Method	calculated value (Regulation (EC) No. 1272/2008)
Remarks	The classification criteria are met.

**Acute oral toxicity (Components)****Benzylalcohol**

Species	mouse	
LD50	1040	mg/kg

**Benzylalcohol**

Species	rat	
LD50	1620	mg/kg

**2-Piperazin-1-ylethylamin**

Reference substance	Ethylbenzene	
Species	rat	
LD50	2140	mg/kg

**2,2,4-Trimethylhexan-1,6-Diamin**

Species	rat	
LD50	910	mg/kg

**Reaction mass of (1-Phenylethyl)phenols and bis-(1-phenylethyl)phenols**

Species	rat	
LD50	> 2000	mg/kg
Method	OECD 423	

**Amines, coco alkyl**

Species	rat	
LD50	> 300 to 2000	mg/kg

**Phenol , Methylstyrenated**

Reference substance	Phenol , Methylstyrenated	
Species	rabbit	
LD50	3600	mg/kg

**Phenol , Methylstyrenated**

Reference substance	Phenol , Methylstyrenated	
Species	rat	
LD50	> 2000	mg/kg
Method	OECD 423	

**2,4,6-Tri(dimethylaminomethyl)phenol**

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Reference substance 2,4,6-Tri(dimethylaminomethyl)phenol

Species rat

LD50 2169 mg/kg

**Acute dermal toxicity**ATE 8.836,73 mg/kg  
47

Method calculated value (Regulation (EC) No. 1272/2008)

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

**Acute dermal toxicity (Components)****Benzylalcohol**

Species rabbit

LD50 &gt; 2000 mg/kg

**2-Piperazin-1-ylethylamin**

Reference substance 2-Piperazin-1-ylethylamin

Species rabbit

LD50 866 mg/kg

**Reaction mass of (1-Phenylethyl)phenols and bis-(1-phenylethyl)phenols**

Species rat

LD50 &gt; 2000 mg/kg

Method OECD 402

**Phenol , Methylstyrenated**

Reference substance Phenol , Methylstyrenated

Species rabbit

LD50 2000 mg/kg

**Phenol , Methylstyrenated**

Reference substance Phenol , Methylstyrenated

Species rat

LD50 &gt; 2000 mg/kg

Method OECD 402

**Acute inhalational toxicity**

ATE &gt; 100 mg/l

Administration/Form Vapors

Method calculated value (Regulation (EC) No. 1272/2008)

ATE &gt; 20 mg/l

Administration/Form Dust/Mist

Method calculated value (Regulation (EC) No. 1272/2008)

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

**Acute inhalative toxicity (Components)****Benzylalcohol**

Reference substance Benzylalcohol

Species rat

LC50 &gt; 4,178 mg/l

Duration of exposure 4 h

Administration/Form Dust/Mist

Method OECD 403

**Reaction mass of (1-Phenylethyl)phenols and bis-(1-phenylethyl)phenols**

Species rat

LC0 4,9 mg/l

Duration of exposure 4 h

Administration/Form Dust/Mist

Method OECD 403

**Phenol , Methylstyrenated**

Reference substance Phenol , Methylstyrenated

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Species	rat		
LC0	4,9		mg/l
Duration of exposure	4	h	
Administration/Form	Dust/Mist		
Method	OECD 403		

**Skin corrosion/irritation**

evaluation	corrosive
Remarks	The classification criteria are met.

**Skin corrosion/irritation (Components)****Amines, coco alkyl**

Species	rabbit
evaluation	corrosive

**Phenol , Methylstyrenated**

Species	rabbit
evaluation	irritant
Method	OECD 404

**Serious eye damage/irritation**

evaluation	corrosive
Remarks	The classification criteria are met.

**Serious eye damage/irritation (Components)****Phenol , Methylstyrenated**

Species	rabbit
evaluation	non-irritant
Method	OECD 405

**Sensitization**

evaluation	May cause sensitization by skin contact.
Remarks	The classification criteria are met.

**Subacute, subchronic, chronic toxicity**

Remarks	not determined
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**Mutagenicity**

Remarks	Based on available data, the classification criteria are not met.
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**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.
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**Specific Target Organ Toxicity (STOT)****Single exposure**

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

Remarks	The classification criteria are met.
evaluation	May cause damage to organs through prolonged or repeated exposure

**Specific Target Organ Toxicity (STOT) (Components)****Amines, coco alkyl**

evaluation	May cause respiratory irritation.
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**Aspiration hazard**

The classification criteria are met.	
Harmful: may cause lung damage if swallowed.	



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## 11.2 Information on other hazards

### 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)

##### Benzylalcohol

Species	Fathead minnow ( <i>Pimephales promelas</i> )		
LC50	460		mg/l
Duration of exposure	96	h	

##### Benzylalcohol

Species	golden orfe ( <i>Leuciscus idus</i> )		
LC50	> 645		mg/l
Duration of exposure	96	h	

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

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

##### 2,2,4-Trimethylhexan-1,6-Diamin

Species	golden orfe ( <i>Leuciscus idus</i> )		
LC50	174		mg/l
Duration of exposure	48	h	

##### Reaction mass of (1-Phenylethyl)phenols and bis-(1-phenylethyl)phenols

Species	zebra fish ( <i>Brachydanio rerio</i> )		
LL50	14,8		mg/l
Duration of exposure	96	h	
Method	OECD 203		

##### Amines, coco alkyl

Reference substance	Amines, coco alkyl		
Species	Fathead minnow ( <i>Pimephales promelas</i> )		
LC50	> 0,01	to 0,1	mg/l

##### 2,4,6-Tri(dimethylaminomethyl)phenol

Reference substance	2,4,6-Tri(dimethylaminomethyl)phenol		
Species	carp ( <i>Cyprinus carpio</i> )		
LC50	175		mg/l
Duration of exposure	96	h	

#### Daphnia toxicity (Components)

##### Benzylalcohol

Species	Daphnia magna		
EC50	230		mg/l
Duration of exposure	48	h	

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

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

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**2,2,4-Trimethylhexan-1,6-Diamin**

Species	Daphnia magna			
EC50	31,5			mg/l
Duration of exposure	24	h		

**Reaction mass of (1-Phenylethyl)phenols and bis-(1-phenylethyl)phenols**

Species	Daphnia magna			
EC50	4,6			mg/l
Duration of exposure	48	h		
Method	OECD 202			

**Amines, coco alkyl**

Reference substance	Amines, coco alkyl			
Species	Daphnia magna			
EC50	> 0,01	to	0,1	mg/l
Duration of exposure	48	h		

**Amines, coco alkyl**

Reference substance	Amines, coco alkyl			
Species	Daphnia magna			
NOEC	> 0,01	to	0,1	
Duration of exposure	21	Days		
Method	OECD 211			

**Phenol , Methylstyrenated**

Reference substance	Phenol , Methylstyrenated			
Species	Daphnia magna			
EL50	51			mg/l
Duration of exposure	48	h		
Method	OECD 202			

**Algae toxicity (Components)****Benzylalcohol**

Species	Pseudokirchneriella subcapitata			
IC50	770			mg/l
Duration of exposure	72	h		

**2-Piperazin-1-ylethylamin**

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

**2,2,4-Trimethylhexan-1,6-Diamin**

Species	Scenedesmus subspicatus			
ErC50	43,5			mg/l
Duration of exposure	72	h		

**Reaction mass of (1-Phenylethyl)phenols and bis-(1-phenylethyl)phenols**

Species	Scenedesmus subspicatus			
EL50	3,14			mg/l
Duration of exposure	72	h		
Method	OECD 201			

**Amines, coco alkyl**

Reference substance	Amines, coco alkyl			
Species	Scenedesmus subspicatus			
EC50	> 0,01	to	0,1	mg/l
Duration of exposure	72	h		

**Phenol , Methylstyrenated**

Reference substance	Phenol , Methylstyrenated			
Species	Scenedesmus subspicatus			
EL50	15			mg/l
Duration of exposure	72	h		

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Method	OECD 201		
<b>2,4,6-Tri(dimethylaminomethyl)phenol</b>			
Reference substance	2,4,6-Tri(dimethylaminomethyl)phenol		
Species	Desmodemus subspicatus		
EC50	84		mg/l
Duration of exposure	72	h	

**Bacteria toxicity (Components)****Benzylalcohol**

Species	Pseudomonas putida		
EC10	>	658	mg/l
Duration of exposure	16	h	

**Benzylalcohol**

Species	Pseudomonas putida		
EC50	390		mg/l
Duration of exposure	24	h	

**2,2,4-Trimethylhexan-1,6-Diamin**

Species	Pseudomonas putida		
EC50	89		mg/l
Duration of exposure	17	h	

**2,4,6-Tri(dimethylaminomethyl)phenol**

Reference substance	2,4,6-Tri(dimethylaminomethyl)phenol		
Species	activated sludge		
NOEC	2		mg/l
Duration of exposure	28	h	

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

not determined

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

not determined

**Partition coefficient n-octanol/water (log value)**

Remarks not determined

**12.4. Mobility in soil****General information**

not determined

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

not determined

**12.7. 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**

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**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**

	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
14.1. UN number or ID number	2735	2735	2735
14.2. UN proper shipping name	POLYAMINES, LIQUID, CORROSIVE, N.O.S. ((Z)-octadec-9-enylamine, 2-Piperazin-1-ylethylamin)	POLYAMINES, LIQUID, CORROSIVE, N.O.S. ((Z)-octadec-9-enylamine, 2-Piperazin-1-ylethylamin)	POLYAMINES, LIQUID, CORROSIVE, N.O.S. ((Z)-octadec-9-enylamine, 2-Piperazin-1-ylethylamin)
14.3. Transport hazard class(es)	8	8	8
Label			
14.4. Packing group	II	II	II
Limited Quantity	1 I	1 I	
Transport category	2		
14.5. Environmental hazards	 ENVIRONMENTALLY HAZARDOUS	Marine Pollutant  ENVIRONMENTALLY HAZARDOUS	 ENVIRONMENTALLY HAZARDOUS
Tunnel restriction code	E		

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****VOC**

VOC (EU) 5,03 % 47,7 g/l

**15.2. Chemical safety assessment**

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

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## **SECTION 16: Other information**

### **Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:**

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

Acute Tox. 4	H302
Skin Corr. 1	H314
Eye Dam. 1	H318
Skin Sens. 1	H317
Repr. 2	H361fd
STOT RE 2	H373
Asp. Tox. 1	H304
Aquatic Acute 1	H400
Aquatic Chronic 1	H410

### **Hazard statements listed in Chapter 2/3**

H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H361	Suspected of damaging fertility or the unborn child.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause 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 2/3**

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
Asp. Tox. 1	Aspiration hazard, Category 1
Carc. 2	Carcinogenicity, Category 2
Eye Dam. 1	Serious eye damage, Category 1
Eye Irrit. 2	Eye irritation, Category 2
Flam. Liq. 2	Flammable liquid, Category 2
Repr. 2	Reproductive toxicity, Category 2
Skin Corr. 1	Skin corrosion, Category 1
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



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STOT RE 1	Specific target organ toxicity - repeated exposure, Category 1
STOT RE 2	Specific target organ toxicity - repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity - single exposure, Category 3

#### 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.