

Trade name: Hardener S for cds-AGL BaseGrout UW/UW eco

Version: 4 / GB

Date revised: 18.12.2025

Substance number: 19435

Replaces Version: 3 / GB

Print date: 18.12.2025

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

### **1.1. Product identifier**

Hardener S for cds-AGL BaseGrout UW/UW eco

### **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

Information provided info@cds-polymere.de

by / telephone

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

Emergency CONTACT (24-Hour-Number): GBK GmbH +49 (0)6132-84463

## **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. 1B	H314
Eye Dam. 1	H318
Skin Sens. 1	H317
Repr. 2	H361fd
STOT RE 2	H373
Aquatic Chronic 2	H411

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.

Trade name: Hardener S for cds-AGL BaseGrout UW/UW eco

Version: 4 / GB

Date revised: 18.12.2025

Substance number: 19435

Replaces Version: 3 / GB

Print date: 18.12.2025

H373 May cause damage to organs through prolonged or repeated exposure.  
 H411 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 2-piperazin-1-ylethylamine; Polyoxypropylenediamine ; Reaction mass of (1-Phenylethyl)phenols and bis-(1-phenylethyl)phenols; 3,6,9-triazaundecamethylenediamine; polymeric polyamidoamine; Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine

**2.3. Other hazards**

No special hazards have to be mentioned.

The product contains no PBT substances. The product contains no vPvB substances. This product does not contain a substance that has endocrine disrupting properties with respect to human. The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

**SECTION 3: Composition/information on ingredients****3.2. Mixtures****Hazardous ingredients****Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine**

CAS No.	68082-29-1		
EINECS no.	500-191-5		
Registration no.	01-2119972320-44-XXXX		
Concentration	>= 50		%
Classification (Regulation (EC) No. 1272/2008)			
	Eye Dam. 1	H318	
	Skin Irrit. 2	H315	
	Skin Sens. 1	H317	
	Aquatic Chronic 2	H411	

**polymeric polyamidoamine**

Registration no.	POLYMER		
Concentration	>= 10	< 25	%
Classification (Regulation (EC) No. 1272/2008)			
	Skin Corr. 1C	H314	
	Eye Dam. 1	H318	
	Aquatic Acute 1	H400	
	Aquatic Chronic 1	H410	
	Skin Sens. 1	H317	

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

Aquatic Chronic	H410	M = 1
1		
Aquatic Acute 1	H400	M = 1

Trade name: Hardener S for cds-AGL BaseGrout UW/UW eco

Version: 4 / GB

Date revised: 18.12.2025

Substance number: 19435

Replaces Version: 3 / GB

Print date: 18.12.2025

**Polyoxypropylenediamine**

CAS No. 9046-10-0  
 EINECS no. 618-561-0  
 Registration no. 01-2119557899-12-XXXX  
 Concentration  $\geq$  10 < 25 %  
 Classification (Regulation (EC) No. 1272/2008)  
 Skin Corr. 1C H314  
 Eye Dam. 1 H318  
 Aquatic Chronic 3 H412

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

EINECS no. 701-443-9  
 Registration no. 01-2119980970-27-XXXX  
 Concentration  $\geq$  2,5 < 10 %  
 Classification (Regulation (EC) No. 1272/2008)  
 Skin Irrit. 2 H315  
 Skin Sens. 1A H317  
 Aquatic Chronic 2 H411

**2-piperazin-1-ylethylamine**

CAS No. 140-31-8  
 EINECS no. 205-411-0  
 Registration no. 01-2119471486-30-XXXX  
 Concentration  $\geq$  2,5 < 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

ATE dermal 866 mg/kg

**3,6,9-triazaundecamethylenediamine**

CAS No. 112-57-2  
 EINECS no. 203-986-2  
 Registration no. 01-2119487290-37-XXXX  
 Concentration  $\geq$  2,5 < 5 %  
 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

ATE oral 1.716 mg/kg  
 ATE dermal 1.260 mg/kg

**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

Trade name: Hardener S for cds-AGL BaseGrout UW/UW eco

Version: 4 / GB

Date revised: 18.12.2025

Substance number: 19435

Replaces Version: 3 / GB

Print date: 18.12.2025

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. Give a Cortison spray at an early stage.

**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

**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. Carbon monoxide (CO); Carbon dioxide (CO<sub>2</sub>); Pyrolysis products

**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

Trade name: Hardener S for cds-AGL BaseGrout UW/UW eco

Version: 4 / GB

Date revised: 18.12.2025

Substance number: 19435

Replaces Version: 3 / GB

Print date: 18.12.2025

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.

#### Further information on storage conditions

Do not keep at temperatures above 20 °C.

### 7.3. Specific end use(s)

Read attached instructions before use.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Other information

Abbreviations: E = respirable part, A = alveoli absorbable part

There are not known any further control parameters.

#### Derived No/Minimal Effect Levels (DNEL/DMEL)

##### 2-piperazin-1-ylethylamine

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	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>

Trade name: Hardener S for cds-AGL BaseGrout UW/UW eco

Version: 4 / GB

Date revised: 18.12.2025

Substance number: 19435

Replaces Version: 3 / GB

Print date: 18.12.2025

Type of value 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 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 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 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**

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 Derived No Effect Level (DNEL)  
 Reference group Worker  
 Duration of exposure Long term  
 Route of exposure inhalative  
 Mode of action Systemic effects  
 Concentration 1,21 mg/m<sup>3</sup>

**3,6,9-triazaundecamethylenediamine**

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 0,25 mg/cm<sup>2</sup>

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 0,82 mg/m<sup>3</sup>



Trade name: Hardener S for cds-AGL BaseGrout UW/UW eco

Version: 4 / GB

Date revised: 18.12.2025

Substance number: 19435

Replaces Version: 3 / GB

Print date: 18.12.2025

**Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine**

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	3,9	mg/m <sup>3</sup>

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	1,1	mg/kg/d

**Polyoxypropylenediamine**

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	2,5	mg/kg/d

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	5,29	mg/m <sup>3</sup>

**Predicted No Effect Concentration (PNEC)**

**2-piperazin-1-ylethylamine**

Type of value	PNEC	
Type	Freshwater	
Concentration	0,058	mg/l

Type of value	PNEC	
Type	Marine	
Concentration	0,0058	mg/l

Type of value	PNEC	
Type	Water (intermittent release)	
Concentration	0,58	mg/l

Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	250	mg/l

Type of value	PNEC	
Type	Sediment	
Concentration	215	mg/kg

Type of value	PNEC	
Type	Marine sediment	

Trade name: Hardener S for cds-AGL BaseGrout UW/UW eco

Version: 4 / GB

Date revised: 18.12.2025

Substance number: 19435

Replaces Version: 3 / GB

Print date: 18.12.2025

Concentration 21,5 mg/kg

Type of value PNEC  
 Type Soil  
 Concentration 1 mg/kg

**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 PNEC  
 Type Marine  
 Concentration 0,00115 mg/l

**3,6,9-triazaundecamethylenediamine**

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

Type of value PNEC  
 Type Water (intermittent release)  
 Concentration 0,068 mg/l

Type of value PNEC  
 Type Saltwater  
 Concentration 0,001 mg/l

Type of value PNEC  
 Type Sewage treatment plant (STP)  
 Concentration 4,6 mg/l

Type of value PNEC  
 Type Freshwater sediment  
 Concentration 3,198 mg/kg

Type of value PNEC  
 Type Marine sediment  
 Concentration 0,319 mg/kg

Type of value PNEC  
 Type Soil  
 Concentration 2,5 mg/kg

**Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine**

Type of value PNEC  
 Type Freshwater  
 Concentration 0,00434 mg/l

Type of value PNEC  
 Type Saltwater  
 Concentration 0,000434 mg/l

**Polyoxypropylenediamine**

Type of value PNEC



Trade name: Hardener S for cds-AGL BaseGrout UW/UW eco  
 Version: 4 / GB  
 Date revised: 18.12.2025  
 Substance number: 19435  
 Replaces Version: 3 / GB  
 Print date: 18.12.2025

Type	Freshwater	
Concentration	0,015	mg/l
Type of value	PNEC	
Type	Water (intermittent release)	
Concentration	0,15	mg/l
Type of value	PNEC	
Type	Saltwater	
Concentration	0,014	mg/l
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	7,5	mg/l
Type of value	PNEC	
Type	Freshwater sediment	
Concentration	0,132	mg/kg
Type of value	PNEC	
Type	Marine sediment	
Concentration	0,125	mg/kg
Type of value	PNEC	
Type	Soil	
Concentration	0,018	mg/kg
Type of value	PNEC	
Type	Secondary poisoning	
Concentration	6,93	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. Short term: filter apparatus, combination filter A-P2; The respiratory protection must comply with the relevant CEN standards.

**Hand protection**

Chemical resistant gloves  
 Appropriate Material nitrile  
 Material thickness >= 0,3 mm  
 Breakthrough time >= 480 min  
 Hand protection must comply with EN 374.  
 Check leak-tightness/impermeability prior to use.

**Eye protection**

Safety glasses with side protection shield; Face shield; Eye protection must comply with EN 166.

**Body protection**

Clothing as usual in the chemical industry. Protective shoes; Personal protective clothing must comply with the relevant CEN standards.

Trade name: Hardener S for cds-AGL BaseGrout UW/UW eco

Version: 4 / GB

Date revised: 18.12.2025

Substance number: 19435

Replaces Version: 3 / GB

Print date: 18.12.2025

## **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>	yellow		
<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>			
Value	> 200		°C
<b>Flammability</b>			
evaluation	not determined		
<b>Upper and lower explosive limits</b>			
Remarks	not determined		
<b>Flash point</b>			
Value	> 93		°C
<b>Ignition temperature</b>			
Remarks	not determined		
<b>Decomposition temperature</b>			
Remarks	not determined		
<b>pH value</b>			
Value	11	to	12
Concentration/H <sub>2</sub> O	1	%	
Temperature	20	°C	
<b>Viscosity</b>			
Remarks	not determined		
<b>Solubility(ies)</b>			
Remarks	not determined		
<b>Partition coefficient n-octanol/water (log value)</b>			
Remarks	not determined		
<b>Vapour pressure</b>			
Remarks	not determined		
<b>Density and/or relative density</b>			
Value	0,98		g/cm <sup>3</sup>
Temperature	23	°C	
<b>Relative vapour density</b>			
Remarks	not determined		
<b>9.2. Other information</b>			
<b>Odour threshold</b>			
Remarks	not determined		
<b>Evaporation rate (ether = 1) :</b>			
Remarks	not determined		
<b>Solubility in water</b>			

Trade name: Hardener S for cds-AGL BaseGrout UW/UW eco

Version: 4 / GB

Date revised: 18.12.2025

Substance number: 19435

Replaces Version: 3 / GB

Print date: 18.12.2025

Remarks virtually insoluble

**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.

**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**

Reactions with strong oxidising agents. Reactions with strong acids. Reactions with strong alkalis.

**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	>	10.000	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-triazaundecamethylenediamine**

Species	rat		
LD50		1716	mg/kg
Method	OECD 401		

**2-piperazin-1-ylethylamine**

Species	rat		
LD50		2140	mg/kg

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

Species	rat		
LD50	>	2000	mg/kg
Method	OECD 423		

**Polyoxypropylenediamine**

Species	rat		
LD50		2885	mg/kg
Method	OECD 401		

**Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine**

Species	rat		
---------	-----	--	--

Trade name: Hardener S for cds-AGL BaseGrout UW/UW eco

Version: 4 / GB

Date revised: 18.12.2025

Substance number: 19435

Replaces Version: 3 / GB

Print date: 18.12.2025

LD50 &gt; 2000 mg/kg

**polymeric polyamidoamine**

Species rat

LD50 &gt; 2000 mg/kg

**Acute dermal toxicity**ATE 8.630,07  
69 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-triazaundecamethylenediamine**

Species rabbit

LD50 1260 mg/kg

Method OECD 402

**2-piperazin-1-ylethylamine**

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

**Polyoxypropylenediamine**

Species rabbit

LD50 2980 mg/kg

Method OECD 402

**Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine**

Species rat

LD50 &gt; 2000 mg/kg

**Acute inhalational toxicity**

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

**Acute inhalative toxicity (Components)****Reaction mass of (1-Phenylethyl)phenols and bis-(1-phenylethyl)phenols**

Species rat

LC0 &gt; 4,9 mg/l

Duration of exposure 4 h

Administration/Form Dust/Mist

Method OECD 403

Remarks Saturation Concentration: No demonstrable toxic effect

**Skin corrosion/irritation**

evaluation corrosive

Remarks The classification criteria are met.

**Skin corrosion/irritation (Components)****3,6,9-triazaundecamethylenediamine**

Species rabbit

evaluation corrosive

Method OECD 404

**2-piperazin-1-ylethylamine**

evaluation corrosive

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

Species rabbit

Trade name: Hardener S for cds-AGL BaseGrout UW/UW eco

Version: 4 / GB

Date revised: 18.12.2025

Substance number: 19435

Replaces Version: 3 / GB

Print date: 18.12.2025

evaluation irritant  
Method OECD 404

**Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine**

evaluation irritant  
Method EEC 84/449, B.4

**Polyoxypropylenediamine**

Species rabbit  
evaluation corrosive  
Method OECD 404

**polymeric polyamidoamine**

evaluation corrosive

**Serious eye damage/irritation**

evaluation corrosive  
Remarks The classification criteria are met.

**Serious eye damage/irritation (Components)****3,6,9-triazaundecamethylenediamine**

Species rabbit  
evaluation corrosive  
Method OECD 405

**2-piperazin-1-ylethylamine**

evaluation corrosive

**Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine**

Species rabbit  
evaluation irritant - risk of serious damage to eyes  
Method OECD 405

**Polyoxypropylenediamine**

Species rabbit  
evaluation corrosive  
Method OECD 405

**polymeric polyamidoamine**

evaluation corrosive

**Sensitization**

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

**Sensitization (Components)****3,6,9-triazaundecamethylenediamine**

Species guinea pig  
evaluation sensitizing  
Method OECD 406

**2-piperazin-1-ylethylamine**

Species guinea pig  
evaluation sensitizing  
Method OECD 406

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

Species rabbit  
evaluation strongly sensitizing  
Method OECD 429

**Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine**

Species mouse

Trade name: Hardener S for cds-AGL BaseGrout UW/UW eco

Version: 4 / GB

Date revised: 18.12.2025

Substance number: 19435

Replaces Version: 3 / GB

Print date: 18.12.2025

evaluation sensitizing  
Method OECD 429

**polymeric polyamidoamine**

evaluation sensitizing

**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.

**Reproduction toxicity (Components)****2-piperazin-1-ylethylamine**

Route of exposure oral  
Dose 150 mg/kg/d  
evaluation Suspected of damaging fertility or the unborn child.

**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 May cause damage to organs through prolonged or repeated exposure

**Specific Target Organ Toxicity (STOT) (Components)****2-piperazin-1-ylethylamine**

evaluation Causes damage to organs through prolonged or repeated exposure

**Aspiration hazard**

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

**11.2 Information on other hazards****Endocrine disrupting properties with respect to humans**

The product does not contain a substance that has endocrine disrupting properties with respect to humans.

**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-triazaundecamethylenediamine**

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

Trade name: Hardener S for cds-AGL BaseGrout UW/UW eco

Version: 4 / GB

Date revised: 18.12.2025

Substance number: 19435

Replaces Version: 3 / GB

Print date: 18.12.2025

**2-piperazin-1-ylethylamine**

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

**Polyoxypropylenediamine**

Species	rainbow trout ( <i>Oncorhynchus mykiss</i> )	
EC50	> 15	mg/l
Duration of exposure	96	h
Method	OECD 203	

**Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine**

Species	Zebrabaerbling	
LC50	7,07	mg/l
Duration of exposure	96	h

**polymeric polyamidoamine**

EC50	0,3	mg/l
Duration of exposure	24	h

**Daphnia toxicity (Components)****3,6,9-triazaundecamethylenediamine**

Species	Daphnia magna	
EC50	24,1	mg/l
Duration of exposure	48	h

**2-piperazin-1-ylethylamine**

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

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

NOEC	0,115	mg/l
Duration of exposure	21	d
Method	OECD 211	
Remarks	Test conducted with a similar formulation.	

**Polyoxypropylenediamine**

Species	Daphnia magna	
EC50	80	mg/l
Duration of exposure	48	h
Method	OECD 202	

**polymeric polyamidoamine**

Species	Daphnia magna	
EC50	0,5	mg/l
Duration of exposure	48	h

**Algae toxicity (Components)****3,6,9-triazaundecamethylenediamine**

Species	Selenastrum capricornutum	
---------	---------------------------	--

Trade name: Hardener S for cds-AGL BaseGrout UW/UW eco

Version: 4 / GB

Date revised: 18.12.2025

Substance number: 19435

Replaces Version: 3 / GB

Print date: 18.12.2025

ErC50	6,8		mg/l
Duration of exposure	72	h	
Method	OECD 201		

**3,6,9-triazaundecamethylenediamine**

Species	Pseudokirchneriella subcapitata		
NOEC	0,5		mg/l
Duration of exposure	72	h	
Method	OECD 201		

**2-piperazin-1-ylethylamine**

Species	Pseudokirchneriella subcapitata		
EC50	> 1000		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		

**Polyoxypropylenediamine**

Species	Selenastrum capricornutum		
ErC50	15		mg/l
Duration of exposure	72	h	
Method	OECD 201		

**Polyoxypropylenediamine**

Species	Skeletonema costatum		
ErC50	141		mg/l
Duration of exposure	2	h	
Method	DIN EN ISO 10253		

**Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine**

Species	Scenedesmus subspicatus		
LC50	1,25		mg/l
Duration of exposure	72	h	

**polymeric polyamidoamine**

Species	Algae		
EC50	0,55		mg/l
Duration of exposure	72	h	

**Bacteria toxicity (Components)**

**3,6,9-triazaundecamethylenediamine**

Species	activated sludge		
EC50	97,3		mg/l
Duration of exposure	2	h	

**Polyoxypropylenediamine**

Species	activated sludge		
EC50	750		mg/l
Duration of exposure	3	h	
Method	OECD 209		

**12.2. Persistence and degradability**

**General information**

not determined

**Biodegradability (Components)**

**3,6,9-triazaundecamethylenediamine**

evaluation not readily degradable

Trade name: Hardener S for cds-AGL BaseGrout UW/UW eco

Version: 4 / GB

Date revised: 18.12.2025

Substance number: 19435

Replaces Version: 3 / GB

Print date: 18.12.2025

**2-piperazin-1-ylethylamine**

evaluation not readily degradable

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

evaluation not readily degradable

**Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine**

evaluation inherently biodegradable, not fulfilling criteria

Method OECD 301 D

**Polyoxypropylenediamine**

evaluation not readily degradable

Method OECD

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

not determined

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

Remarks not determined

**Octanol/water partition coefficient (log Pow) (Components)****3,6,9-triazaundecamethylenediamine**

log Pow -3,16

**2-piperazin-1-ylethylamine**

log Pow -1.48

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

log Pow 3,03

**Polyoxypropylenediamine**

log Pow 1,34

**Bioconcentration factor (BCF) (Components)****Reaction mass of (1-Phenylethyl)phenols and bis-(1-phenylethyl)phenols**

BCF 69 to 190

**Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine**

BCF 77,4

**Polyoxypropylenediamine**

BCF 3,16

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

not determined

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

not determined

**Results of PBT and vPvB assessment**

The product contains no PBT substances

The product contains no vPvB substances.

**12.6 Endocrine disrupting properties****General information**

not determined

**Endocrine disrupting properties with respect to the environment**

The product does not contain a substance that has endocrine disrupting properties with respect to non-



Trade name: Hardener S for cds-AGL BaseGrout UW/UW eco

Version: 4 / GB

Date revised: 18.12.2025

Substance number: 19435

Replaces Version: 3 / GB

Print date: 18.12.2025

target organisms.

## **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**

#### **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**

Trade name: Hardener S for cds-AGL BaseGrout UW/UW eco







Version: 4 / GB

Date revised: 18.12.2025

Substance number: 19435

Replaces Version: 3 / GB

Print date: 18.12.2025

	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. (polymeric polyamidoamine, Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine)	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (polymeric polyamidoamine, Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine)	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (polymeric polyamidoamine, Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine)
14.3. Transport hazard class(es)	8	8	8
Label			
14.4. Packing group	III	III	III
Limited Quantity	5 l	5 l	
Transport category	3		
14.5. Environmental hazards	 ENVIRONMENTALLY HAZARDOUS	Marine Pollutant  ENVIRONMENTALLY HAZARDOUS	 ENVIRONMENTALLY HAZARDOUS
Tunnel restriction code	E		

### Information for all modes of transport

#### 14.6. Special precautions for user

The relevant transport regulations have to be considered.

### Other information

#### 14.7 Maritime transport in bulk according to IMO instruments

no data

## SECTION 15: Regulatory information \*\*\*

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

#### Major-accident categories acc. 2012/18/EU

Category	E2	Hazardous to the Aquatic Environment	200000	kg	500000	kg
----------	----	--------------------------------------	--------	----	--------	----

Trade name: Hardener S for cds-AGL BaseGrout UW/UW eco

Version: 4 / GB

Date revised: 18.12.2025

Substance number: 19435

Replaces Version: 3 / GB

Print date: 18.12.2025

**VOC**

VOC (EU) 0 % 0 g/l

**Other regulations, restrictions and prohibition regulations**

Handling epoxy resin systems safely (published by PlasticsEurope) www.plasticseurope.org

This product meets the requirements of Regulation (EC) No. 1935/2004 on the limitation of VOC content. EU2004/42/IIA(j)500(2010): &lt;500g/l VOC

**Restriction according to annex XVII to regulation (EU) No 1907/2006**

Conditions of restriction for the entries Annex XVII REACH should be considered.

**GIS-Code**

GIS-Code RE 55

**Other information**

The product does not contain substances according to: Candidate List for inclusion in Annex XIV of Regulation (EC) No. 1907/2006 (REACH).

**15.2. Chemical safety assessment**

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

**SECTION 16: Other information**

Relevant changes compared with the previous version of the safety data sheet are marked with: \*\*\*

**Key literature references and sources for data**

SDS

ECHA

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

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

Skin Corr. 1B	H314	Calculation method
Eye Dam. 1	H318	Calculation method
Skin Sens. 1	H317	Calculation method
Repr. 2	H361fd	Calculation method
STOT RE 2	H373	Calculation method
Aquatic Chronic 2	H411	Calculation method

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

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.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
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

Trade name: Hardener S for cds-AGL BaseGrout UW/UW eco

Version: 4 / GB

Date revised: 18.12.2025

Substance number: 19435

Replaces Version: 3 / GB

Print date: 18.12.2025

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. 1B	Skin corrosion, Category 1B
Skin Corr. 1C	Skin corrosion, Category 1C
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
STOT RE 2	Specific target organ toxicity - repeated exposure, Category 2

### Abbreviations

ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route

RID: Règlement concernant le transport international ferroviaire de marchandises dangereuses

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

CAS: Chemical Abstracts Service

EAK: Europäischer Abfallkatalog

VOC: Volatile Organic Compound

MAK: Maximale Arbeitsplatz-Konzentration

AGW: Arbeitsplatzgrenzwert

BGW: Biologischer Grenzwert

NOEC: No observable effect concentration

LD: Lethal dose

LC: Lethal concentration

PBT: Persistent, Bioaccumulative and Toxic

vPvB: Very persistent and very bioaccumulative

SVHC: Substances of very high concern

DNEL: Derived no effect level

PNEC: Predicted no effect concentration

OECD: Organisation for Economic Co-operation and Development

REACH: Registration, Evaluation, Autohorisation and Restriction of Chemicals

TRGS: Technische Regeln für Gefahrstoffe

### 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.