

Trade name: Hardener S for cds-AGL BaseGrout UW rapid

Version: 3 / GB

Date revised: 18.12.2025

Substance number: 19439

Replaces Version: 2 / 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 rapid

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

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 1	H372
Aquatic Acute 1	H400
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.

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H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.
 H372 Causes damage to organs through prolonged or repeated exposure.
 H400 Very toxic to aquatic life.
 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 3,6,9-triazaundecamethylenediamine; 2-piperazin-1-ylethylamine; Fatty acids C18 unsat., reaction products with tetraethylenepentamine; Reaction mass of (1-Phenylethyl)phenols and bis-(1-phenylethyl)phenols

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****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

2-piperazin-1-ylethylamine

CAS No.	140-31-8		
EINECS no.	205-411-0		
Registration no.	01-2119471486-30-XXXX		
Concentration	>= 25	<	50 %
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
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Fatty acids C18 unsat., reaction products with tetraethylenepentamine

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CAS No.	1226892-45-0		
EINECS no.	629-725-6		
Registration no.	01-2119487006-38-XXXX		
Concentration	>=	10	< 25 %
Classification (Regulation (EC) No. 1272/2008)			
	Skin Corr. 1C	H314	
	Eye Dam. 1	H318	
	Skin Sens. 1A	H317	
	Aquatic Acute 1	H400	
	Aquatic Chronic 1	H410	

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

Aquatic Acute 1 H400 M = 10

Aquatic Chronic H410 M = 1

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3,6,9-triazaundecamethylenediamine

CAS No.	112-57-2		
EINECS no.	203-986-2		
Registration no.	01-2119487290-37-XXXX		
Concentration	>=	1	< 2,5 %
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 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.

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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. Carbon monoxide (CO); Carbon dioxide (CO₂); 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 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.



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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 ³

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 ³

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 ³

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 ³

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	

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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/m³

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/cm²

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/m³

Fatty acids C18 unsat., reaction products with tetraethylenepentamine

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 1,4 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 9,87 mg/m³

Predicted No Effect Concentration (PNEC)

2-piperazin-1-ylethylamine

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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		
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

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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 unsat., reaction products with tetraethylenepentamine

Type of value	PNEC		
Type	Freshwater		
Concentration	0,0307		mg/l

Type of value	PNEC		
Type	Saltwater		
Concentration	0,00307		mg/l

Type of value	PNEC		
Type	Freshwater sediment		
Concentration	119,8		mg/kg

Type of value	PNEC		
Type	Marine sediment		
Concentration	11,98		mg/l

Type of value	PNEC		
Type	Soil		
Concentration	9,44		mg/kg

Type of value	PNEC		
Type	Sewage treatment plant (STP)		
Concentration	2,3		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. 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 \geq 0,3 mm
 Breakthrough time \geq 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

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	liquid		
Odour	amine-like		
Colour	slightly yellowish		
Melting point			
Remarks	not determined		
Freezing point			
Remarks	not determined		
Boiling point or initial boiling point and boiling range			
Value	> 200		°C
Flammability			
evaluation	not determined		
Upper and lower explosive limits			
Remarks	not determined		
Flash point			
Value	> 90		°C
Ignition temperature			
Remarks	not determined		
Decomposition temperature			
Remarks	not determined		
pH value			
Value	11	to	12
Concentration/H ₂ O	1	%	
Temperature	20	°C	
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	1,03		g/cm ³
Temperature	23	°C	
Relative vapour density			
Remarks	not determined		

9.2. Other information

Odour threshold	
Remarks	not determined

Evaporation rate (ether = 1) :

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Remarks not determined

Solubility in water

Remarks partially miscible

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		

Fatty acids C18 unsat., reaction products with tetraethylenepentamine

Species	rat		
LD50	>	2000	mg/kg
Method	OECD 423		

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Acute dermal toxicity

ATE	2.004,79	mg/kg
	54	
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	> 2000	mg/kg
Method	OECD 402	

Acute inhalational toxicity

Remarks	Based on available data, the classification criteria are not met.
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Acute inhalative toxicity (Components)**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	
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
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Reaction mass of (1-Phenylethyl)phenols and bis-(1-phenylethyl)phenols

Species	rabbit
evaluation	irritant
Method	OECD 404

Fatty acids C18 unsat., reaction products with tetraethylenepentamine

Species	rabbit
evaluation	corrosive
Method	OECD 404

Serious eye damage/irritation

evaluation	corrosive
Remarks	The classification criteria are met.

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

Species	rabbit
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evaluation corrosive
Method OECD 405

2-piperazin-1-ylethylamine

evaluation corrosive

Fatty acids C18 unsat., reaction products with tetraethylenepentamine

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 unsat., reaction products with tetraethylenepentamine

Species guinea pig
evaluation strongly sensitizing
Method OECD 406

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 Causes 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

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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	

2-piperazin-1-ylethylamine

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

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

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

Fatty acids C18 unsat., reaction products with tetraethylenepentamine

Species	zebra fish (Brachydanio rerio)		
LC50	0,19		mg/l
Duration of exposure	96	h	
Method	OECD 203		

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
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Duration of exposure	21	d	
Method	OECD 211		
Remarks	Test conducted with a similar formulation.		

Fatty acids C18 unsat., reaction products with tetraethylenepentamine

Species	Daphnia magna		
EC50	0,18		mg/l
Duration of exposure	48	h	
Method	OECD 202		

Fatty acids C18 unsat., reaction products with tetraethylenepentamine

Species	Daphnia magna		
NOEC	0,32		mg/l
Method	OECD 211		

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

Species	Selenastrum capricornutum		
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		

Fatty acids C18 unsat., reaction products with tetraethylenepentamine

Species	Pseudokirchneriella subcapitata		
EC50	0,638		mg/l
Duration of exposure	72	h	
Method	OECD 201		

Bacteria toxicity (Components)**Fatty acids C18 unsat., reaction products with tetraethylenepentamine**

Species	activated sludge		
EC50	114		mg/l
Duration of exposure	3	h	
Method	OECD 209		

3,6,9-triazaundecamethylenediamine

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

12.2. Persistence and degradability**General information**

not determined

Biodegradability (Components)**Fatty acids C18 unsat., reaction products with tetraethylenepentamine**

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Value	24	%
Duration of test	28	d
evaluation	not readily degradable	
Method	OECD 301 D	

3,6,9-triazaundecamethylenediamine

evaluation not readily degradable

2-piperazin-1-ylethylamine

evaluation not readily degradable

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

evaluation not readily degradable

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

Fatty acids C18 unsat., reaction products with tetraethylenepentamine

log Pow 2,2

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

BCF 69 to 190

Fatty acids C18 unsat., reaction products with tetraethylenepentamine

BCF 1,24

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-target organisms.

12.7. Other adverse effects**General information**

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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

	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. (2-piperazin-1-ylethylamine, Fatty acids C18 unsat., reaction products with tetraethylenepentamine)	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (2-piperazin-1-ylethylamine, Fatty acids C18 unsat., reaction products with tetraethylenepentamine)	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (2-piperazin-1-ylethylamine, Fatty acids C18 unsat., reaction products with tetraethylenepentamine)
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		

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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	E1	Hazardous to the Aquatic Environment	100000	kg	200000	kg
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VOC

VOC (EU)	0	%	0	g/l
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Other regulations, restrictions and prohibition regulationsHandling 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): <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 90

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 dataSDS
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 1	H372	Calculation method
Aquatic Acute 1	H400	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.

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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.
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
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

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

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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.



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