

Trade name: Hardener S for cds-Pouring Concrete UW/UW-eco

Version: 3 / GB Date revised: 22.05.2025

Substance number: 13646 Replaces Version: 2 / GB Print date: 22.05.2025

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

1.1. Product identifier

Hardener S for cds-Pouring Concrete 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 & 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.



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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



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Polyoxypropylenediamine

CAS No. 9046-10-0 EINECS no. 618-561-0

Registration no. 01-2119557899-12-XXXX

Concentration >= 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 >= 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 >= 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 >= 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 Aguatic 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



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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 (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



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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

Duration of exposure

Route of exposure

Mode of action

Worker

Long term
inhalative

Systemic effects

Concentration 10,6 mg/m³

Type of value Derived No Effect Level (DNEL)

Reference group

Duration of exposure

Route of exposure

Mode of action

Worker

Acute

inhalative

Systemic effects

Concentration 10,6 mg/m³



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Type of value Derived No Effect Level (DNEL)

Reference group

Duration of exposure

Route of exposure

Mode of action

Concentration

Worker

Long term

inhalative

Local effects

0,015

tion 0,015 mg/m³

Type of value Derived No Effect Level (DNEL)

Reference group

Duration of exposure

Route of exposure

Mode of action

Concentration

Worker

Short term
inhalative
Local effects

0.08

Concentration 0,08 mg/m³

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/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



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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/m³

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/m³

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



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Concentration 21,5 mg/kg

PNEC Type of value Type Soil

Concentration mg/kg

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

Type of value **PNEC** Type Freshwater

Concentration 0.0115 mq/l

PNEC Type of value Type Marine

Concentration 0,00115 mg/l

3,6,9-triazaundecamethylenediamine

Type of value **PNEC** Type Freshwater

Concentration 0,01 mq/l

Type of value **PNEC**

Type Water (intermittent release)

Concentration 0,068 mg/l

PNEC Type of value Type Saltwater

Concentration 0,001 mg/l

PNEC Type of value

Type Sewage treatment plant (STP)

Concentration mg/l

Type of value **PNEC**

Type Freshwater sediment

Concentration 3,198 mg/kg

PNEC Type of value

Marine sediment Type

Concentration 0.32 mg/kg

PNEC Type of value Type Soil

Concentration 2,5 mg/kg

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

triethylenetetramine

PNEC Type of value Type Freshwater

Concentration 0,00434 mg/l

Type of value **PNEC** Type Saltwater

Concentration 0,000434 mg/l

Polyoxypropylenediamine

PNEC Type of value



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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 wom. 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.

Eve 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.



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SECTION 9: Physical and chemical properties ***

9.1. Information on basic physical and chemical properties

Physical state liquid
Odour amine-like
Colour yellow

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 > 93 °C

Ignition temperature

Remarks not determined

Decomposition temperature

Remarks not determined

pH value

Value 11 to 12 Concentration/H2O 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

Remarks not determined

Density and/or relative density

Value 0,98 g/cm³

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



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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 alkalies.

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



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LD50 2000 mg/kg

polymeric polyamidoamine

Species rat

LD50 2000 mg/kg

Acute dermal toxicity

ATE 8.630,07 mg/kg

69

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

OECD 402 Method

Polyoxypropylenediamine

Species rabbit

LD50 2980 mg/kg

OECD 402 Method

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

triethylenetetramine

Species rat

LD50 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 4,9 mg/l

Duration of exposure 4 h

Administration/Form **Dust/Mist** Method **OECD 403**

Skin corrosion/irritation

evaluation corrosive

The classification criteria are met. Remarks

Serious eye damage/irritation

evaluation corrosive

Remarks The classification criteria are met.

Sensitization

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

Subacute, subchronic, chronic toxicity

Remarks not determined

Mutagenicity

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



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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.

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

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

Polyoxypropylenediamine

Species rainbow trout (Oncorhynchus mykiss)

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



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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

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

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



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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

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

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 envrionment

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



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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 ***



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	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	8		8
14.4. Packing group	III	III	III
Limited Quantity	51	51	
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 200000 kg 500000 kg

Environment



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VOC

VOC (EU) a/I

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): <500g/I VOC

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

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

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: ***

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.

Causes skin irritation. H315

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

Suspected of damaging fertility or the unborn child. H361

Suspected of damaging fertility. Suspected of damaging the unborn child. H361fd Causes damage to organs through prolonged or repeated exposure. H372 May cause damage to organs through prolonged or repeated exposure. H373

H400 Very toxic to aquatic life.

Very toxic to aquatic life with long lasting effects. H410 Toxic to aquatic life with long lasting effects. H411 Harmful to aquatic life with long lasting effects. H412

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 Hazardous to the aquatic environment, chronic, Category 2 Aquatic Chronic 2 Hazardous to the aquatic environment, chronic, Category 3 Aquatic Chronic 3

Serious eye damage, Category 1 Eye Dam. 1 Reproductive toxicity, Category 2 Repr. 2 Skin Corr. 1B Skin corrosion, Category 1B



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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

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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.