

Trade name: Hardener for cds-Pouring Concrete UW flex

Version: 2 / GB

Date revised: 01.07.2025

Substance number: 10285

Replaces Version: 1 / GB

Print date: 01.07.2025

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

1.1. Product identifier

Hardener for cds-Pouring Concrete UW flex

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

Use of the substance/preparation

Coating material

1.3. Details of the supplier of the safety data sheet

Address/Manufacturer

cds Polymere GmbH & Co. KG

Gau-Bickelheimer Str. 72

55576 Sprendlingen/Rhh.

Telephone no. +49(6701) 9350-0

Fax no. +49(6701) 9350-50

Information provided by / telephone info@cds-polymere.de

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)

| | |
|-------------------|--------|
| Acute Tox. 4 | H302 |
| Skin Corr. 1B | H314 |
| Eye Dam. 1 | H318 |
| Skin Sens. 1A | H317 |
| Carc. 2 | H351 |
| Repr. 2 | H361fd |
| STOT RE 2 | H373 |
| Asp. Tox. 1 | H304 |
| Aquatic Acute 1 | H400 |
| Aquatic Chronic 1 | H410 |

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008

For explanation of abbreviations see section 16.

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

Hazard pictograms



Signal word

Danger

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Hazard statements

| | |
|--------|--|
| H302 | Harmful if swallowed. |
| H314 | Causes severe skin burns and eye damage. |
| H317 | May cause an allergic skin reaction. |
| H351 | Suspected of causing cancer. |
| H361fd | Suspected of damaging fertility. Suspected of damaging the unborn child. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H304 | May be fatal if swallowed and enters airways. |
| H410 | Very toxic to aquatic life with long lasting effects. |

Precautionary statements

| | |
|----------------|--|
| P260 | Do not breathe dust/fume/gas/mist/vapours/spray. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P301+P310 | IF SWALLOWED: Immediately call a POISON CENTER or doctor. |
| P304+P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P310 | Immediately call a POISON CENTER or doctor. |

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

| | |
|----------|---|
| contains | 2-piperazin-1-ylethylamine; Reaction mass of (1-Phenylethyl)phenols and bis-(1-phenylethyl)phenols; amines, coco alkyl; (Z)-octadec-9-enylamine; benzyl alcohol; 2,2,4-Trimethylhexane-1,6-diamine; Urethane Prepolymer; Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol; 4-methylpentan-2-one |
|----------|---|

2.3. Other hazards

No special hazards have to be mentioned.

The product contains no PBT substances. The product contains substances meeting the vPvB criteria. See SECTION 3 in this safety data sheet. 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 |

Urethane Prepolymer

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

cATpE oral 500 mg/kg

(Z)-octadec-9-enylamine

| | |
|------------|-----------|
| CAS No. | 112-90-3 |
| EINECS no. | 204-015-5 |

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| | | | |
|--|-----------------------|------|---|
| Registration no. | 01-2119473797-19-XXXX | | |
| Concentration | >= 10 | < 20 | % |
| Classification (Regulation (EC) No. 1272/2008) | | | |
| Acute Tox. 4 | H302 | | |
| Asp. Tox. 1 | H304 | | |
| Skin Corr. 1B | H314 | | |
| STOT SE 3 | H335 | | |
| STOT RE 2 | H373 | | |
| Aquatic Acute 1 | H400 | | |
| Aquatic Chronic 1 | H410 | | |

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

| | |
|-----------------|--------|
| Aquatic Acute 1 | M = 10 |
| Aquatic Chronic | M = 10 |
| 1 | |

ATE oral 1.200 mg/kg

2-piperazin-1-ylethylamine

| | |
|--|-----------------------|
| CAS No. | 140-31-8 |
| EINECS no. | 205-411-0 |
| Registration no. | 01-2119471486-30-XXXX |
| Concentration | >= 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

amines, coco alkyl

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

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

| | |
|-----------------|--------|
| Aquatic Acute 1 | M = 10 |
| Aquatic Chronic | M = 10 |
| 1 | |

ATE oral 1.240 mg/kg

benzyl alcohol

| | |
|--|-----------------------|
| CAS No. | 100-51-6 |
| EINECS no. | 202-859-9 |
| Registration no. | 01-2119492630-38-XXXX |
| Concentration | >= 1 < 10 % |
| Classification (Regulation (EC) No. 1272/2008) | |

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Acute Tox. 4 H302
 Acute Tox. 4 H332

ATE oral 1.620 mg/kg
 cATpE inhalative, Dust/Mist 1,5 mg/l
 cATpE inhalative, Vapors 11 mg/l

2,2,4-Trimethylhexane-1,6-diamine

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

ATE oral 910 mg/kg

2,4,6-tris(dimethylaminomethyl)phenol

CAS No. 90-72-2
 EINECS no. 202-013-9
 Registration no. 01-2119560597-27-XXXX
 Concentration >= 1 < 10 %
 Classification (Regulation (EC) No. 1272/2008)
 Acute Tox. 4 H302
 Skin Irrit. 2 H315
 Eye Irrit. 2 H319

4-methylpentan-2-one

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

cATpE inhalative, Dust/Mist 1,5 mg/l
 ATE inhalative, Vapors 11 mg/l

Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol

EINECS no. 700-960-7
 Registration no. 01-2119555274-38-XXXX
 Concentration >= 0,1 < 1 %
 Classification (Regulation (EC) No. 1272/2008)
 Skin Irrit. 2 H315
 Skin Sens. 1 H317
 Aquatic Chronic 3 H412

Supplemental information

The substance is contained in the Candidate List for inclusion in Annex XIV of Regulation (EC) No. 1907/2006 (REACH).

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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.

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

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6.1. Personal precautions, protective equipment and emergency procedures

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

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

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

6.4. Reference to other sections

Refer to protective measures listed in Sections 7 and 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

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

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

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

Hints on storage assembly

Do not store together with foodstuffs.

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

Exposure limit values

4-methylpentan-2-one

| | |
|----------------------------|--------------------------------------|
| List | MAK(GKV 2003) |
| Value | 83 mg/m ³ |
| Maximum limit value: 2(l); | Skin resorption / sensitisation: H; |
| H, Y | Pregnancy group: Y Remarks: DFG, EU, |

4-methylpentan-2-one

| | |
|---------------------------|-----------------------|
| List | IOELV |
| Value | 83 mg/m ³ |
| Short term exposure limit | 208 mg/m ³ |
| Remarks: 2000/39/EC | 20 ppm(V) |
| | 50 ppm(V) |

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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)

benzyl alcohol

| | | |
|----------------------|--------------------------------|-------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Worker | |
| Duration of exposure | Long term | |
| Route of exposure | dermal | |
| Mode of action | Systemic effects | |
| Concentration | 8 | mg/kg |

| | | |
|----------------------|--------------------------------|-------------------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Worker | |
| Duration of exposure | Long term | |
| Route of exposure | inhalative | |
| Mode of action | Systemic effects | |
| Concentration | 22 | mg/m 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 | 110 | mg/m ³ |

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

2-piperazin-1-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) | |
|---------------|--------------------------------|--|

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| | | |
|----------------------|--------------------------------|-------------------|
| 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 | |
| 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 ³ |

amines, coco alkyl

| | | |
|----------------------|--------------------------------|-------------------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Worker | |
| Duration of exposure | Long term | |
| Route of exposure | inhalative | |
| Mode of action | Systemic effects | |
| Concentration | 0,38 | mg/m ³ |

Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol

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

2,4,6-tris(dimethylaminomethyl)phenol

| | |
|---------------|--------------------------------|
| Type of value | Derived No Effect Level (DNEL) |
|---------------|--------------------------------|

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| | | |
|----------------------|------------------|-------------------|
| Reference group | Worker | |
| Duration of exposure | Long term | |
| Route of exposure | inhalative | |
| Mode of action | Systemic effects | |
| Concentration | 0,53 | 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 | |
| Concentration | 0,15 | mg/kg/d |

| | | |
|----------------------|--------------------------------|-------------------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Worker | |
| Duration of exposure | Short term | |
| Route of exposure | inhalative | |
| Mode of action | Systemic effects | |
| Concentration | 2,1 | mg/m ³ |

| | | |
|----------------------|--------------------------------|---------|
| 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 | 0,6 | mg/kg/d |

(Z)-octadec-9-enylamine

| | | |
|----------------------|--------------------------------|-------------------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Worker | |
| Duration of exposure | Long term | |
| Route of exposure | inhalative | |
| Mode of action | Systemic effects | |
| Concentration | 0,38 | mg/m ³ |

4-methylpentan-2-one

| | | |
|----------------------|--------------------------------|-------------------|
| 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 | 83 | 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 | 208 | 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 | 83 | mg/l |

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| | | |
|----------------------|--------------------------------|-------------------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Worker | |
| Duration of exposure | Acute | |
| Route of exposure | inhalative | |
| Mode of action | Local effects | |
| Concentration | 208 | 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 | |
| Concentration | 11,8 | mg/kg/d |

Predicted No Effect Concentration (PNEC)

benzyl alcohol

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

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 |

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|---------------|------------------------------|-------|
| 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 |

2,2,4-Trimethylhexane-1,6-diamine

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

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

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

| | | |
|---------------|------------|------|
| Type of value | PNEC | |
| Type | Freshwater | |
| Concentration | 0,0115 | mg/l |

| | | |
|---------------|---------|------|
| Type of value | PNEC | |
| Type | Marine | |
| Concentration | 0,00115 | mg/l |

amines, coco alkyl

| | | |
|---------------|------------------------------|-------|
| Type of value | PNEC | |
| Type | Freshwater | |
| Concentration | 0,00026 | mg/l |
| Type of value | PNEC | |
| Type | Marine | |
| Concentration | 0,000026 | mg/l |
| Type of value | PNEC | |
| Type | Sewage treatment plant (STP) | |
| Concentration | 0,55 | mg/l |
| Type of value | PNEC | |
| Type | Freshwater sediment | |
| Concentration | 0,1794 | mg/kg |
| Type of value | PNEC | |
| Type | Marine sediment | |
| Concentration | 0,01794 | mg/kg |
| Type of value | PNEC | |

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| | | |
|---------------|------|-------|
| Type | Soil | |
| Concentration | 10 | mg/kg |

Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol

| | | |
|---------------|------------|------|
| Type of value | PNEC | |
| Type | Freshwater | |
| Concentration | 0,014 | mg/l |

| | | |
|---------------|--------|------|
| Type of value | PNEC | |
| Type | Marine | |
| Concentration | 0,0014 | mg/l |

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

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

| | | |
|---------------|------|-------|
| Type of value | PNEC | |
| Type | Soil | |
| Concentration | 212 | mg/kg |

| | | |
|---------------|---------------------|-------|
| Type of value | PNEC | |
| Type | Freshwater sediment | |
| Concentration | 1064 | mg/kg |

| | | |
|---------------|-----------------|-------|
| Type of value | PNEC | |
| Type | Marine sediment | |
| Concentration | 106 | mg/kg |

2,4,6-tris(dimethylaminomethyl)phenol

| | | |
|---------------|-------|------|
| Type of value | PNEC | |
| Type | Water | |
| Concentration | 0,046 | mg/l |

| | | |
|---------------|--------|------|
| Type of value | PNEC | |
| Type | Marine | |
| Concentration | 0,0046 | mg/l |

| | | |
|---------------|------------------------------|------|
| Type of value | PNEC | |
| Type | Water (intermittent release) | |
| Concentration | 0,46 | mg/l |

| | | |
|---------------|------------------------------|------|
| Type of value | PNEC | |
| Type | Sewage treatment plant (STP) | |
| Concentration | 0,2 | mg/l |

| | | |
|---------------|---------------------|-------|
| Type of value | PNEC | |
| Type | Freshwater sediment | |
| Concentration | 0,262 | mg/kg |

| | | |
|---------------|-----------------|-------|
| Type of value | PNEC | |
| Type | Marine sediment | |
| Concentration | 0,026 | mg/kg |

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| | | |
|---------------|-------|-------|
| Type of value | PNEC | |
| Type | Soil | |
| Concentration | 0,025 | mg/kg |

(Z)-octadec-9-enylamine

| | | |
|---------------|------------|------|
| Type of value | PNEC | |
| Type | Freshwater | |
| Concentration | 0,00026 | mg/l |

| | | |
|---------------|-----------|------|
| Type of value | PNEC | |
| Type | Saltwater | |
| Concentration | 0,000026 | mg/l |

| | | |
|---------------|------------------------------|------|
| Type of value | PNEC | |
| Type | Sewage treatment plant (STP) | |
| Concentration | 0,55 | mg/l |

| | | |
|---------------|---------------------|-------|
| Type of value | PNEC | |
| Type | Freshwater sediment | |
| Concentration | 0,1794 | mg/kg |

| | | |
|---------------|-----------------|-------|
| Type of value | PNEC | |
| Type | Marine sediment | |
| Concentration | 0,01794 | mg/kg |

| | | |
|---------------|------|-------|
| Type of value | PNEC | |
| Type | Soil | |
| Concentration | 10 | mg/kg |

4-methylpentan-2-one

| | | |
|---------------|------------|------|
| Type of value | PNEC | |
| Type | Freshwater | |
| Concentration | 0,6 | mg/l |

| | | |
|---------------|-----------|------|
| Type of value | PNEC | |
| Type | Saltwater | |
| Concentration | 0,06 | mg/l |

| | | |
|---------------|------------------------------|------|
| Type of value | PNEC | |
| Type | Sewage treatment plant (STP) | |
| Concentration | 27,5 | mg/l |

| | | |
|---------------|---------------------|-------|
| Type of value | PNEC | |
| Type | Freshwater sediment | |
| Concentration | 8,27 | mg/kg |

| | | |
|---------------|-----------------|-------|
| Type of value | PNEC | |
| Type | Marine sediment | |
| Concentration | 0,83 | mg/kg |

| | | |
|---------------|------|-------|
| Type of value | PNEC | |
| Type | Soil | |
| Concentration | 1,3 | mg/kg |

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

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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.

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 | > | 100 | °C |
| Pressure | | 1013 | hPa |

Flammability

evaluation not determined

Upper and lower explosive limits

Remarks not determined

Flash point

| | | | |
|-------|---|----|----|
| Value | > | 65 | °C |
|-------|---|----|----|

Ignition temperature

Remarks not determined

Decomposition temperature

Remarks not determined

pH value

| | | | |
|--------------------------------|----|----|----|
| Value | 11 | to | 12 |
| Concentration/H ₂ O | 1 | % | |

Viscosity

Remarks not determined

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Solubility(ies)

Remarks not determined

Partition coefficient n-octanol/water (log value)

Remarks not determined

Vapour pressure

| | | | |
|-------------|---|----|-----|
| Value | < | 1 | hPa |
| Temperature | | 50 | °C |

Density and/or relative density

| | | | |
|-------------|--|------|-------------------|
| Value | | 0,95 | g/cm ³ |
| Temperature | | 23 | °C |

Relative vapour density

Remarks not determined

9.2. Other information**Odour threshold**

Remarks not determined

Evaporation rate (ether = 1) :

Remarks not determined

Solubility in water

Remarks immiscible

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 | 1.661,99 | mg/kg |
|-----|----------|-------|

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05

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

Acute oral toxicity (Components)**benzyl alcohol**

Species mouse
 LD50 1040 mg/kg

benzyl alcohol

Species rat
 LD50 1620 mg/kg

2-piperazin-1-ylethylamine

Species rat
 LD50 2140 mg/kg

2,2,4-Trimethylhexane-1,6-diamine

Species rat
 LD50 910 mg/kg

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

Species rat
 LD50 > 2000 mg/kg
 Method OECD 423

amines, coco alkyl

Species rat
 LD50 1240 to 1388 mg/kg
 Method OECD 401

Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol

Species rat
 LD50 > 2000 mg/kg
 Method OECD 423

2,4,6-tris(dimethylaminomethyl)phenol

Species rat
 LD50 2169 mg/kg
 Remarks The classification criteria are met.

(Z)-octadec-9-enylamine

Species rat
 LD50 1200 to 2000 mg/kg
 Method OECD 401

4-methylpentan-2-one

Species rat
 LD50 2080 mg/kg
 Method OECD 401

Acute dermal toxicity

ATE 8.836,73 mg/kg
 47

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

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

Acute dermal toxicity (Components)**benzyl alcohol**

Species rabbit
 LD50 > 2000 mg/kg

2-piperazin-1-ylethylamine

Species rabbit
 LD50 866 mg/kg

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

| | | | |
|---------|----------|-------|--|
| Species | rat | | |
| LD50 | > 2000 | mg/kg | |
| Method | OECD 402 | | |

Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol

| | | | |
|---------|----------|-------|--|
| Species | rat | | |
| LD50 | > 2000 | mg/kg | |
| Method | OECD 402 | | |

4-methylpentan-2-one

| | | | |
|---------|--------|-------|--|
| Species | rat | | |
| LD50 | > 2000 | mg/kg | |

Acute inhalational toxicity

| | | | |
|---------------------|---|------|--|
| ATE | > 100 | mg/l | |
| Administration/Form | Vapors | | |
| Method | calculated value (Regulation (EC) No. 1272/2008) | | |
| ATE | > 20 | mg/l | |
| Administration/Form | Dust/Mist | | |
| Method | calculated value (Regulation (EC) No. 1272/2008) | | |
| Remarks | Based on available data, the classification criteria are not met. | | |

Acute inhalative toxicity (Components)**benzyl alcohol**

| | | | |
|----------------------|-----------|------|--|
| Species | rat | | |
| LC50 | > 4,178 | mg/l | |
| Duration of exposure | 4 | h | |
| Administration/Form | Dust/Mist | | |

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 | | |

Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol

| | | | |
|----------------------|-----------|------|--|
| Species | rat | | |
| LC0 | 4,9 | mg/l | |
| Duration of exposure | 4 | h | |
| Administration/Form | Dust/Mist | | |

4-methylpentan-2-one

| | | | |
|---------------------|--------|------|--|
| ATE | 11 | mg/l | |
| Administration/Form | Vapors | | |

Skin corrosion/irritation

| | | |
|------------|--------------------------------------|--|
| evaluation | corrosive | |
| Remarks | The classification criteria are met. | |

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

| | | | |
|------------|-----------|--|--|
| Species | rabbit | | |
| evaluation | corrosive | | |

Serious eye damage/irritation

| | | |
|------------|--------------------------------------|--|
| evaluation | corrosive | |
| Remarks | The classification criteria are met. | |

Sensitization

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

Subacute, subchronic, chronic toxicity

Remarks not determined

Mutagenicity

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

Reproductive toxicity

evaluation Suspected of damaging fertility. Suspected of damaging the unborn child.
Remarks The classification criteria are met.

Carcinogenicity

evaluation Suspected of causing cancer.
Remarks The classification criteria are 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)

amines, coco alkyl
evaluation May cause respiratory irritation.

Aspiration hazard

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

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)**benzyl alcohol**

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

benzyl alcohol

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

2-piperazin-1-ylethylamine

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

2,2,4-Trimethylhexane-1,6-diamine

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

amines, coco alkyl

Species Fathead minnow (Pimephales promelas)
 LC50 > 0,01 to 0,1 mg/l
 Method OECD 203

2,4,6-tris(dimethylaminomethyl)phenol

Species carp (Cyprinus carpio)
 LC50 175 mg/l
 Duration of exposure 96 h

(Z)-octadec-9-enylamine

Species Fathead minnow (Pimephales promelas)
 LC50 > 0,01 to 0,1 mg/l
 Duration of exposure 96 h
 Method OECD 203

Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol

Species zebra fish (Brachydanio rerio)
 LL50 25,8 mg/l
 Duration of exposure 96 h
 Method OECD 203

4-methylpentan-2-one

Species zebra fish (Brachydanio rerio)
 LC50 > 179 mg/l
 Duration of exposure 96 h
 Method OECD 203

Daphnia toxicity (Components)**benzyl alcohol**

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

2-piperazin-1-ylethylamine

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

2,2,4-Trimethylhexane-1,6-diamine

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

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

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

amines, coco alkyl

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Species Daphnia magna
 EC50 > 0,01 to 0,1 mg/l
 Duration of exposure 48 h
 Method OECD 202

amines, coco alkyl

Species Daphnia magna
 NOEC > 0,01 to 0,1
 Duration of exposure 21 Days
 Method OECD 211

Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol

Species Daphnia magna
 EL50 14 to 51 mg/l
 Duration of exposure 48 h
 Method OECD 202

(Z)-octadec-9-enylamine

Species Daphnia magna
 EC50 > 0,01 to 0,1 mg/l
 Duration of exposure 48 h
 Method OECD 202

2,4,6-tris(dimethylaminomethyl)phenol

Species Daphnia magna
 EC50 718 mg/l
 Duration of exposure 96 h

4-methylpentan-2-one

Species Daphnia magna
 EC50 > 200 mg/l
 Duration of exposure 48 h
 Method OECD 202

4-methylpentan-2-one

Species Daphnia magna
 NOEC 30 mg/l
 Duration of exposure 21 d
 Method OECD 211

Algae toxicity (Components)**benzyl alcohol**

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

2-piperazin-1-ylethylamine

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

2,2,4-Trimethylhexane-1,6-diamine

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

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

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

amines, coco alkyl

Species Scenedesmus subspicatus
 EC50 > 0,01 to 0,1 mg/l

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Duration of exposure 72 h

Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol

Species Scenedesmus subspicatus

EC50 15 mg/l

Duration of exposure 72 h

Method OECD 201

2,4,6-tris(dimethylaminomethyl)phenol

Species Desmodesmus subspicatus

EC50 84 mg/l

Duration of exposure 72 h

Method OECD 201

2,4,6-tris(dimethylaminomethyl)phenol

Species Desmodesmus subspicatus

NOEC 6,25 mg/l

Duration of exposure 72 h

Method OECD 201

(Z)-octadec-9-enylamine

Species Desmodesmus subspicatus

EC50 > 0,01 to 0,1 mg/l

Duration of exposure 72 h

Method OECD 201

4-methylpentan-2-one

Species Algae

EC50 > 146 mg/l

Duration of exposure 7 d

4-methylpentan-2-one

Species Algae

NOEC 146 mg/l

Duration of exposure 7 Days

Bacteria toxicity (Components)**benzyl alcohol**

Species Pseudomonas putida

EC10 > 658 mg/l

Duration of exposure 16 h

benzyl alcohol

Species Pseudomonas putida

EC50 390 mg/l

Duration of exposure 24 h

2,2,4-Trimethylhexane-1,6-diamine

Species Pseudomonas putida

EC50 89 mg/l

Duration of exposure 17 h

2,4,6-tris(dimethylaminomethyl)phenol

Species activated sludge

NOEC 2 mg/l

Duration of exposure 28 h

4-methylpentan-2-one

Species Pseudomonas putida

EC50 275 mg/l

Duration of exposure 16 h

Method DIN 38412 / Part 8

12.2. Persistence and degradability**General information**

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not determined

Biodegradability (Components)**4-methylpentan-2-one**

| | | |
|------------------|--|---|
| Value | 83 | % |
| Duration of test | 28 | d |
| evaluation | Readily biodegradable (according to OECD criteria) | |
| Method | OECD 301F | |

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

log Pow 3,7

4-methylpentan-2-onepOW 79
log Pow 1,9**Bioconcentration factor (BCF) (Components)****(Z)-octadec-9-enylamine**

BCF > 500

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 vPvB-substances.

Results of PBT and vPvB assessment (Ingredients)**Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol**

The substance meets vPvB-criteria.

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**

not determined

General information / ecology

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

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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. ((Z)-octadec-9-enylamine, 2-piperazin-1-ylethylamine) | POLYAMINES, LIQUID, CORROSIVE, N.O.S. ((Z)-octadec-9-enylamine, 2-piperazin-1-ylethylamine) | POLYAMINES, LIQUID, CORROSIVE, N.O.S. ((Z)-octadec-9-enylamine, 2-piperazin-1-ylethylamine) |
| 14.3. Transport hazard class(es) | 8 | 8 | 8 |
| Label |  |  |  |
| 14.4. Packing group | II | II | II |
| Limited Quantity | 1 I | 1 I | |
| Transport category | 2 | | |
| 14.5. Environmental hazards |  ENVIRONMENTALLY HAZARDOUS | Marine Pollutant  ENVIRONMENTALLY HAZARDOUS |  ENVIRONMENTALLY HAZARDOUS |
| Tunnel restriction code | E | | |

Information for all modes of transport

14.6. Special precautions for user

The relevant transport regulations have to be considered.

Other information

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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 |
| VOC | | | | | | |
| VOC (EU) | | 1,11 % | 10,5 | 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): <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.

Other information

The product contains 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)

| | | |
|-------------------|--------|--------------------|
| Acute Tox. 4 | H302 | Calculation method |
| Skin Corr. 1B | H314 | Calculation method |
| Eye Dam. 1 | H318 | Calculation method |
| Skin Sens. 1A | H317 | Calculation method |
| Carc. 2 | H351 | Calculation method |
| Repr. 2 | H361fd | Calculation method |
| STOT RE 2 | H373 | Calculation method |
| Asp. Tox. 1 | H304 | Calculation method |
| Aquatic Acute 1 | H400 | Calculation method |
| Aquatic Chronic 1 | H410 | Calculation method |

Hazard statements listed in Chapter 2/3

| | |
|------|---|
| H225 | Highly flammable liquid and vapour. |
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H311 | Toxic in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |

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| | |
|--------|--|
| H336 | May cause drowsiness or dizziness. |
| H351 | Suspected of causing cancer. |
| H361 | Suspected of damaging fertility or the unborn child. |
| H361fd | Suspected of damaging fertility. Suspected of damaging the unborn child. |
| H372 | Causes damage to organs through prolonged or repeated exposure. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |

CLP categories listed in Chapter 2/3

| | |
|-------------------|--|
| Acute Tox. 3 | Acute toxicity, Category 3 |
| Acute Tox. 4 | Acute toxicity, Category 4 |
| Aquatic Acute 1 | Hazardous to the aquatic environment, acute, Category 1 |
| Aquatic Chronic 1 | Hazardous to the aquatic environment, chronic, Category 1 |
| Aquatic Chronic 2 | Hazardous to the aquatic environment, chronic, Category 2 |
| Aquatic Chronic 3 | Hazardous to the aquatic environment, chronic, Category 3 |
| Asp. Tox. 1 | Aspiration hazard, Category 1 |
| Carc. 2 | Carcinogenicity, Category 2 |
| Eye Dam. 1 | Serious eye damage, Category 1 |
| Eye Irrit. 2 | Eye irritation, Category 2 |
| Flam. Liq. 2 | Flammable liquid, Category 2 |
| Repr. 2 | Reproductive toxicity, Category 2 |
| Skin Corr. 1A | Skin corrosion, Category 1A |
| Skin Corr. 1B | Skin corrosion, Category 1B |
| Skin Irrit. 2 | Skin irritation, Category 2 |
| Skin Sens. 1 | Skin sensitization, Category 1 |
| Skin Sens. 1A | Skin sensitization, Category 1A |
| STOT RE 1 | Specific target organ toxicity - repeated exposure, Category 1 |
| STOT RE 2 | Specific target organ toxicity - repeated exposure, Category 2 |
| STOT SE 3 | Specific target organ toxicity - single exposure, Category 3 |

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, Authorisation and Restriction of Chemicals

TRGS: Technische Regeln für Gefahrstoffe

Information about Safety Data Sheets Preparers

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

Trade name: Hardener for cds-Pouring Concrete UW flex

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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.