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

## 1.1. Product identifier

Hardener S for cds-Cable-Joint-Filler

## 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

## 1.4. Emergency telephone number

cds-Labor / Tel. +49 (67 01) 93 50-28 ( This number is reachable monday to friday from 8 am to 5 pm )

# SECTION 2: Hazards identification

## 2.1. Classification of the substance or mixture

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

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

| | |
|---|---|
| Acute Tox. 4 | H302 |
| Skin Corr. 1 | H314 |
| Eye Dam. 1 | H318 |
| Skin Sens. 1 | H317 |
| Repr. 2 | H361fd |
| STOT SE 3 | H335 |
| STOT RE 2 | H373 |
| Asp. Tox. 1 | H304 |
| Aquatic Acute 1 | H400 |
| Aquatic Chronic 1 | H410 |

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008
For explanation of abbreviations see section 16.

## 2.2. Label elements

### Labelling according to regulation (EC) No 1272/2008

### Hazard pictograms

### Signal word

Danger

### Hazard statements

H302 Harmful if swallowed.

| | |
|---|---|
| H314 | Causes severe skin burns and eye damage. |
| H317 | May cause an allergic skin reaction. |
| H361fd | Suspected of damaging fertility. Suspected of damaging the unborn child. |
| H335 | May cause respiratory irritation. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H304 | May be fatal if swallowed and enters airways. |
| H410 | Very toxic to aquatic life with long lasting effects. |

**Precautionary statements**

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

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

contains: 2-Piperazin-1-ylethylamin; Reaction mass of (1-Phenylethyl)phenols and bis-(1-phenylethyl)phenols; Fettsäuren,Tallöl-,Reaktionsprodukte m. Tetraethylenpentamin; Amines, coco alkyl; (Z)-octadec-9-enylamine; Benzylalcohol; 2,2,4-Trimethylhexan-1,6-Diamin; Urethane Prepolymer; Fettsäuren, Tallöl, Reaktionsprodukte mit Triethylentetramin; 2,4,6-Tri(dimethylaminomethyl)phenol; 3,6-Diazaoctan-1,8-diamin; 3,6,9-Triazaundecan-1,11-diamin; Phenol , Methylstyrenated

## 2.3. Other hazards

No special hazards have to be mentioned.

# SECTION 3: Composition/information on ingredients

**Hazardous ingredients**

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

| | | | | | |
|---|---|---|---|---|---|
| EINECS no. | 701-443-9 | | | | |
| Registration no. | 01-2119980970-27-XXXX | | | | |
| Concentration | >= | 25 | < | 50 | % |

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

| | |
|---|---|
| Skin Irrit. 2 | H315 |
| Skin Sens. 1A | H317 |
| Aquatic Chronic 2 | H411 |

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

| | | | | | |
|---|---|---|---|---|---|
| CAS No. | 112-90-3 | | | | |
| EINECS no. | 204-015-5 | | | | |
| Registration no. | 01-2119473797-19-XXXX | | | | |
| Concentration | >= | 25 | < | 38 | % |

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

**Urethane Prepolymer**

| | | | | |
|---|---|---|---|---|
| Concentration | >= | 10 | < 19 | % |

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

| | |
|---|---|
| Acute Tox. 4 | H302 |

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

| | | | | |
|---|---|---|---|---|
| CAS No. | 90-72-2 | | | |
| EINECS no. | 202-013-9 | | | |
| Registration no. | 01-2119560597-27-XXXX | | | |
| Concentration | >= | 3 | < 10 | % |

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

| | |
|---|---|
| Skin Irrit. 2 | H315 |
| Eye Irrit. 2 | H319 |
| Acute Tox. 4 | H302 |

**2-Piperazin-1-ylethylamin**

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

**Amines, coco alkyl**

| | | | | |
|---|---|---|---|---|
| CAS No. | 61788-46-3 | | | |
| EINECS no. | 262-977-1 | | | |
| Registration no. | 01-2119473798-17-XXXX | | | |
| Concentration | >= | 3 | < 5 | % |

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

| | |
|---|---|
| Acute Tox. 4 | H302 |
| Asp. Tox. 1 | H304 |
| Skin Corr. 1B | H314 |
| STOT SE 3 | H335 |
| STOT RE 2 | H373 |
| Aquatic Acute 1 | H400 |
| Aquatic Chronic 1 | H410 |

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

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

**Benzylalcohol**

| | | | | |
|---|---|---|---|---|
| CAS No. | 100-51-6 | | | |
| EINECS no. | 202-859-9 | | | |
| Registration no. | 01-2119492630-38-XXXX | | | |
| Concentration | >= | 1 | < 4,1 | % |

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

| | |
|---|---|
| Acute Tox. 4 | H302 |

| | |
|---|---|
| Acute Tox. 4 | H332 |

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

| | | | | | |
|---|---|---|---|---|---|
| CAS No. | 25513-64-8 | | | | |
| EINECS no. | 247-063-2 | | | | |
| Registration no. | 01-2119560598-25-XXXX | | | | |
| Concentration | >= | 1 | < | 2,8 | % |

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

| | |
|---|---|
| Skin Corr. 1A | H314 |
| Acute Tox. 4 | H302 |
| Skin Sens. 1A | H317 |
| Eye Dam. 1 | H318 |

**Fettsäuren,Tallöl-,Reaktionsprodukte m. Tetraethylenpentamin**

| | | | | | |
|---|---|---|---|---|---|
| CAS No. | 68953-36-6 | | | | |
| EINECS no. | 273-201-6 | | | | |
| Registration no. | 01-2119487006-38-XXXX | | | | |
| Concentration | >= | 1 | < | 2,1 | % |

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

| | |
|---|---|
| Skin Corr. 1B | H314 |
| Skin Sens. 1 | H317 |
| Aquatic Acute 1 | H400 |
| Aquatic Chronic 1 | H410 |
| Eye Dam. 1 | H318 |

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

| | | |
|---|---|---|
| Aquatic Acute 1 | H400 | M = 10 |
| Aquatic Chronic 1 | H410 | M = 1 |

**Fettsäuren, Tallöl, Reaktionsprodukte mit Triethylentetramin**

| | | | | | |
|---|---|---|---|---|---|
| CAS No. | 1226892-44-9 | | | | |
| EINECS no. | 629-765-4 | | | | |
| Registration no. | 01-2119490750-36-XXXX | | | | |
| Concentration | >= | 1 | < | 2,5 | % |

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

| | |
|---|---|
| Skin Corr. 1C | H314 |
| Skin Sens. 1 | H317 |
| Aquatic Acute 1 | H400 |
| Aquatic Chronic 1 | H410 |
| Eye Dam. 1 | H318 |

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

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

**3,6,9-Triazaundecan-1,11-diamin**

| | | | | | |
|---|---|---|---|---|---|
| CAS No. | 112-57-2 | | | | |
| EINECS no. | 203-986-2 | | | | |
| Concentration | >= | 0,1 | < | 1 | % |

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 |

**3,6-Diazaoctan-1,8-diamin**

| | | | | | |
|---|---|---|---|---|---|
| CAS No. | 112-24-3 | | | | |
| EINECS no. | 203-950-6 | | | | |
| Concentration | >= | 0,1 | < | 1 | % |

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

| | |
|---|---|
| Acute Tox. 4 | H312 |
| Aquatic Chronic 3 | H412 |
| Skin Corr. 1B | H314 |
| Skin Sens. 1 | H317 |
| Acute Tox. 4 | H302 |

**Phenol , Methylstyrenated**

| | | | | | |
|---|---|---|---|---|---|
| CAS No. | 68512-30-1 | | | | |
| EINECS no. | 270-966-8 | | | | |
| Registration no. | 01-2119555274-38-XXXX | | | | |
| Concentration | >= | 0,1 | < | 1 | % |

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

| | |
|---|---|
| Skin Irrit. 2 | H315 |
| Skin Sens. 1 | H317 |
| Aquatic Chronic 3 | H412 |

# SECTION 4: First aid measures

## 4.1. Description of first aid measures

### General information

Remove contaminated, soaked clothing immediately and dispose of safely. Adhere to personal protective measures when giving first aid. Clean body thoroughly (bath, shower). In any case show the physician the Safety Data Sheet.

### After inhalation

Ensure supply of fresh air. Remove affected person from danger area. Seek medical advice immediately.

### After skin contact

Wash off immediately with soap and water. Seek medical advice immediately.

### After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). Take medical treatment.

### After ingestion

Call in a physician immediately and show him the Safety Data Sheet. Rinse mouth thoroughly with water. Let plenty of water be drunk in small gulps. Do not induce vomiting.

### Adhere to personal protective measures when giving first aid

First aider: Pay attention to self-protection!

## 4.2. Most important symptoms and effects, both acute and delayed

Until now no symptoms known so far.

## 4.3. Indication of any immediate medical attention and special treatment needed

### Hints for the physician / hazards

In the case of swallowing with subsequent vomiting, aspiration of the lungs can occur which can lead to chemical pneumonia or asphyxiation.

# SECTION 5: Firefighting measures

## 5.1. Extinguishing media

### Suitable extinguishing media

Dry powder

### Non suitable extinguishing media

Full water jet

## 5.2. Special hazards arising from the substance or mixture

In case of combustion evolution of dangerous gases possible.

## 5.3. Advice for firefighters

### Special protective equipment for fire-fighting

Do not inhale explosion and/or combustion gases. In case of combustion use a suitable breathing apparatus. Wear full protective suit.

### Other information

Collect contaminated fire-fighting water separately, must not be discharged into the drains. Fire residues and contaminated fire-fighting water must be disposed of in accordance with the local regulations. Observe manufacturer's / distributor`s instructions.

# SECTION 6: Accidental release measures

## 6.1. Personal precautions, protective equipment and emergency procedures

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

## 6.2. Environmental precautions

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

## 6.3. Methods and material for containment and cleaning up

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

## 6.4. Reference to other sections

Refer to protective measures listed in Sections 7 and 8.

# SECTION 7: Handling and storage

## 7.1. Precautions for safe handling

### Advice on safe handling

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

## 7.2. Conditions for safe storage, including any incompatibilities

### 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.

### Storage classes

| | | |
|---|---|---|
| Storage class according to TRGS 510 | 3 | Flammable liquid |

### Further information on storage conditions

Do not keep at temperatures above 20 °C.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Other information

Contains no substances with occupational exposure limit values.

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

**Benzylalcohol**

| | | |
|---|---|---|
| Reference substance | Benzylalcohol | |
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Worker | |
| Duration of exposure | Long term | |
| Route of exposure | dermal | |
| Mode of action | Systemic effects | |
| Concentration | 8 | mg/kg |
| | | |
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Worker | |
| Duration of exposure | Long term | |
| Route of exposure | inhalative | |
| Mode of action | Systemic effects | |
| Concentration | 22 | mg/m³ |
| | | |
| | Benzylalcohol | |
| 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/m³ |
| | | |
| | Benzylalcohol | |
| 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-ylethylamin**

| | | |
|---|---|---|
| Reference substance | 2-Piperazin-1-ylethylamin | |
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Worker | |
| Duration of exposure | Long term | |
| Route of exposure | inhalative | |
| Mode of action | Systemic effects | |
| Concentration | 10,6 | mg/m³ |
| | | |
| | 2-Piperazin-1-ylethylamin | |
| 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/m³ |

| | | |
|---|---|---|
| | 2-Piperazin-1-ylethylamin | |
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Worker | |
| Duration of exposure | Long term | |
| Route of exposure | inhalative | |
| Mode of action | Local effects | |
| Concentration | 0,015 | mg/m³ |

| | | |
|---|---|---|
| | 2-Piperazin-1-ylethylamin | |
| 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/m³ |

| | | |
|---|---|---|
| | 2-Piperazin-1-ylethylamin | |
| 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 |

| | | |
|---|---|---|
| | 2-Piperazin-1-ylethylamin | |
| 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**

| | | |
|---|---|---|
| Reference substance | Reaction mass of (1-Phenylethyl)phenols and bis-(1-phenylethyl)phenols | |
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Worker | |
| Duration of exposure | Long term | |
| Route of exposure | dermal | |
| Mode of action | Systemic effects | |
| Concentration | 2,87 | mg/kg |

| | | |
|---|---|---|
| | 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 | inhalative | |
| Mode of action | Systemic effects | |
| Concentration | 1,21 | mg/m³ |

**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/m³ |

**Phenol , Methylstyrenated**

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

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

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

| | | |
|---|---|---|
| Reference substance | 2,4,6-Tri(dimethylaminomethyl)phenol | |
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Worker | |
| Duration of exposure | Long term | |
| Route of exposure | inhalative | |
| Mode of action | Systemic effects | |
| Concentration | 0,53 | mg/m³ |

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

| | | |
|---|---|---|
| | 2,4,6-Tri(dimethylaminomethyl)phenol | |
| 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/m³ |

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

## Predicted No Effect Concentration (PNEC)

**Benzylalcohol**

| | | |
|---|---|---|
| Type of value | PNEC | |
| Type | Water | |
| Concentration | 1 | mg/l |

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

**2-Piperazin-1-ylethylamin**

| | | |
|---|---|---|
| Reference substance | 2-Piperazin-1-ylethylamin | |
| Type of value | PNEC | |
| Type | Freshwater | |
| Concentration | 0,058 | mg/l |
| | 2-Piperazin-1-ylethylamin | |
| Type of value | PNEC | |
| Type | Marine | |
| Concentration | 0,0058 | mg/l |
| | 2-Piperazin-1-ylethylamin | |
| Type of value | PNEC | |
| Type | Water (intermittent release) | |
| Concentration | 0,58 | mg/l |
| | 2-Piperazin-1-ylethylamin | |
| Type of value | PNEC | |
| Type | Sewage treatment plant (STP) | |
| Concentration | 250 | mg/l |
| | 2-Piperazin-1-ylethylamin | |
| Type of value | PNEC | |
| Type | Sediment | |
| Concentration | 215 | mg/kg |
| | 2-Piperazin-1-ylethylamin | |
| Type of value | PNEC | |
| Type | Marine sediment | |

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

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

| | | |
|---|---|---|
| Type of value | PNEC | |
| Type | Freshwater | |
| Concentration | 0,102 | mg/l |
| Type of value | PNEC | |
| Type | Marine | |
| Concentration | 0,01 | mg/l |

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

| | | |
|---|---|---|
| Reference substance | Reaction mass of (1-Phenylethyl)phenols and bis-(1-phenylethyl)phenols | |
| Type of value | PNEC | |
| Type | Freshwater | |
| Concentration | 0,0115 | mg/l |
| | Reaction mass of (1-Phenylethyl)phenols and bis-(1-phenylethyl)phenols | |
| Type of value | PNEC | |
| Type | Marine | |
| Concentration | 0,00115 | mg/l |

**Amines, coco alkyl**

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

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

**Phenol , Methylstyrenated**

| | | |
|---|---|---|
| Reference substance | Phenol , Methylstyrenated | |
| Type of value | PNEC | |
| Type | Freshwater | |
| Concentration | 0,014 | mg/l |
| | Phenol , Methylstyrenated | |
| Type of value | PNEC | |
| Type | Marine | |
| Concentration | 0,0014 | mg/l |
| | Phenol , Methylstyrenated | |
| Type of value | PNEC | |
| Type | Water (intermittent release) | |
| Concentration | 0,14 | mg/l |
| | Phenol , Methylstyrenated | |
| Type of value | PNEC | |
| Type | Sewage treatment plant (STP) | |
| Concentration | 2,4 | mg/l |
| | Phenol , Methylstyrenated | |
| Type of value | PNEC | |
| Type | Soil | |
| Concentration | 212 | mg/kg |
| | Phenol , Methylstyrenated | |
| Type of value | PNEC | |
| Type | Freshwater sediment | |
| Concentration | 1064 | mg/kg |
| | Phenol , Methylstyrenated | |
| Type of value | PNEC | |
| Type | Marine sediment | |
| Concentration | 106 | mg/kg |

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

| | | |
|---|---|---|
| Reference substance | 2,4,6-Tri(dimethylaminomethyl)phenol | |
| Type of value | PNEC | |
| Type | Water | |
| Concentration | 0,046 | mg/l |
| | 2,4,6-Tri(dimethylaminomethyl)phenol | |
| Type of value | PNEC | |
| Type | Marine | |
| Concentration | 0,005 | mg/l |
| | 2,4,6-Tri(dimethylaminomethyl)phenol | |
| Type of value | PNEC | |
| Type | Water (intermittent release) | |
| Concentration | 0,46 | mg/l |
| | 2,4,6-Tri(dimethylaminomethyl)phenol | |
| Type of value | PNEC | |

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

### 8.2. Exposure controls

**General protective and hygiene measures**

Hold emergency shower available. Hold eye wash fountain available. Do not inhale gases/vapours/aerosols. Avoid contact with skin and eyes. Do not eat, drink or smoke during work time. Storage of foodstuffs in work rooms is forbidden. Wash hands before breaks and after work. Clean skin thoroughly after work; apply skin cream.

**Respiratory protection**

If workplace limits are exceeded, a respiratory protection approved for this particular job must be worn.

**Hand protection**

Chemical resistant gloves

| | |
|---|---|
| Appropriate Material | neoprene |

**Eye protection**

Safety glasses with side protection shield; Face shield

**Body protection**

Clothing as usual in the chemical industry. Protective shoes

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

| | | | |
|---|---|---|---|
| **Physical state** | liquid | | |
| **Melting point** | | | |
| Remarks | not determined | | |
| **Freezing point** | | | |
| Remarks | not determined | | |
| **Boiling point or initial boiling point and boiling range** | | | |
| Remarks | not determined | | |
| **Flammability** | | | |
| evaluation | not determined | | |
| **Upper and lower explosive limits** | | | |
| Remarks | not determined | | |
| **Flash point** | | | |
| Value | > | 100 | °C |

**Ignition temperature**
Remarks not determined

**Decomposition temperature**
Remarks not determined

**pH value**
Remarks not determined

**Viscosity**
Remarks not determined

**Solubility(ies)**
Remarks not determined

**Partition coefficient n-octanol/water (log value)**
Remarks not determined

**Vapour pressure**
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**
Remarks not determined

**Explosive properties**
evaluation not determined

**Oxidising properties**
Remarks not determined

**Other information**
None known

## SECTION 10: Stability and reactivity

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

### 10.2. Chemical stability
No hazardous reactions known.

### 10.3. Possibility of hazardous reactions
No hazardous reactions known.

### 10.4. Conditions to avoid
No hazardous reactions known.

### 10.5. Incompatible materials
None known

### 10.6. Hazardous decomposition products

Toxic gases/vapours, Irritant gases/vapours

## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

**Acute oral toxicity**

| | | |
|---|---|---|
| ATE | 1.065,2696 | mg/kg |
| Method | calculated value (Regulation (EC) No. 1272/2008) | |
| Remarks | The classification criteria are met. | |

**Acute oral toxicity (Components)**

**Benzylalcohol**

| | | |
|---|---|---|
| Species | mouse | |
| LD50 | 1040 | mg/kg |

**Benzylalcohol**

| | | |
|---|---|---|
| Species | rat | |
| LD50 | 1620 | mg/kg |

**3,6,9-Triazaundecan-1,11-diamin**

| | | |
|---|---|---|
| Reference substance | 3,6,9-Triazaundecan-1,11-diamin | |
| Species | rat | |
| LD50 | 1716 | mg/kg |
| Method | OECD 401 | |

**2-Piperazin-1-ylethylamin**

| | | |
|---|---|---|
| Reference substance | Ethylbenzene | |
| Species | rat | |
| LD50 | 2140 | mg/kg |

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

| | | |
|---|---|---|
| Species | rat | |
| LD50 | 910 | mg/kg |

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

| | | |
|---|---|---|
| Species | rat | |
| LD50 | > 2000 | mg/kg |
| Method | OECD 423 | |

**Amines, coco alkyl**

| | | |
|---|---|---|
| Species | rat | |
| LD50 | > 300 to 2000 | mg/kg |

**Phenol , Methylstyrenated**

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

**Phenol , Methylstyrenated**

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

**Fettsäuren,Tallöl-,Reaktionsprodukte m. Tetraethylenpentamin**

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

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

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

| | | | |
|---|---|---|---|
| LD50 | | 2169 | mg/kg |

### Acute dermal 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 dermal toxicity (Components)

**Benzylalcohol**

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

**3,6,9-Triazaundecan-1,11-diamin**

| | | | |
|---|---|---|---|
| Reference substance | 3,6,9-Triazaundecan-1,11-diamin | | |
| Species | rabbit | | |
| LD50 | | 1260 | mg/kg |
| Method | OECD 402 | | |

**2-Piperazin-1-ylethylamin**

| | | | |
|---|---|---|---|
| Reference substance | 2-Piperazin-1-ylethylamin | | |
| Species | rabbit | | |
| LD50 | | 866 | mg/kg |

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

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

**Phenol , Methylstyrenated**

| | | | |
|---|---|---|---|
| Reference substance | Phenol , Methylstyrenated | | |
| Species | rabbit | | |
| LD50 | | 2000 | mg/kg |

**Phenol , Methylstyrenated**

| | | | |
|---|---|---|---|
| Reference substance | Phenol , Methylstyrenated | | |
| Species | rat | | |
| LD50 | > | 2000 | mg/kg |
| Method | OECD 402 | | |

### 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)

**Benzylalcohol**

| | | | | |
|---|---|---|---|---|
| Reference substance | Benzylalcohol | | | |
| Species | rat | | | |
| LC50 | > | 4,178 | | mg/l |
| Duration of exposure | | 4 | h | |
| Administration/Form | Dust/Mist | | | |
| Method | OECD 403 | | | |

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

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

**Phenol , Methylstyrenated**

| | | | |
|---|---|---|---|
| Reference substance | Phenol , Methylstyrenated | | |
| Species | rat | | |
| LC0 | 4,9 | | mg/l |
| Duration of exposure | 4 | h | |
| Administration/Form | Dust/Mist | | |
| Method | OECD 403 | | |

## Skin corrosion/irritation

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

## Skin corrosion/irritation (Components)

**Amines, coco alkyl**

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

**Phenol , Methylstyrenated**

| | |
|---|---|
| Species | rabbit |
| evaluation | irritant |
| Method | OECD 404 |

## Serious eye damage/irritation

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

## Serious eye damage/irritation (Components)

**Phenol , Methylstyrenated**

| | |
|---|---|
| Species | rabbit |
| evaluation | non-irritant |
| Method | OECD 405 |

## Sensitization

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

## Subacute, subchronic, chronic toxicity

| | |
|---|---|
| Remarks | not determined |

## 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

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

## Specific Target Organ Toxicity (STOT)

**Single exposure**

| | |
|---|---|
| Remarks | The classification criteria are met. |
| evaluation | May cause respiratory irritation. |

**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

#### Experience in practice

Inhalation may lead to irritation of the respiratory tract.

#### Other information

No toxicological data are available.

## SECTION 12: Ecological information

### 12.1. Toxicity

#### General information

not determined

#### Fish toxicity (Components)

**Benzylalcohol**

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

**Benzylalcohol**

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

**3,6,9-Triazaundecan-1,11-diamin**

| | | | | |
|---|---|---|---|---|
| Reference substance | 3,6,9-Triazaundecan-1,11-diamin | | | |
| Species | guppy (Poecilia reticulata) | | | |
| LC50 | | 420 | | mg/l |
| Duration of exposure | | 96 | h | |

**2-Piperazin-1-ylethylamin**

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

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

| | | | | |
|---|---|---|---|---|
| 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**

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

**Fettsäuren,Tallöl-,Reaktionsprodukte m. Tetraethylenpentamin**

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

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

| | |
|---|---|
| Reference substance | 2,4,6-Tri(dimethylaminomethyl)phenol |
| Species | carp (Cyprinus carpio) |

| | | | | |
|---|---|---|---|---|
| LC50 | 175 | | | mg/l |
| Duration of exposure | 96 | h | | |

## Daphnia toxicity (Components)

**Benzylalcohol**

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

**3,6,9-Triazaundecan-1,11-diamin**

| | | | | |
|---|---|---|---|---|
| Reference substance | 3,6,9-Triazaundecan-1,11-diamin | | | |
| Species | Daphnia magna | | | |
| EC50 | 24,1 | | | mg/l |
| Duration of exposure | 48 | h | | |

**2-Piperazin-1-ylethylamin**

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

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

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

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

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

**Amines, coco alkyl**

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

**Amines, coco alkyl**

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

**Phenol , Methylstyrenated**

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

**Fettsäuren,Tallöl-,Reaktionsprodukte m. Tetraethylenpentamin**

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

**Fettsäuren,Tallöl-,Reaktionsprodukte m. Tetraethylenpentamin**

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

## Algae toxicity (Components)

**Benzylalcohol**

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

**3,6,9-Triazaundecan-1,11-diamin**

| | | | | | |
|---|---|---|---|---|---|
| Reference substance | 3,6,9-Triazaundecan-1,11-diamin | | | | |
| Species | Selenastrum capricornutum | | | | |
| ErC50 | | 6,8 | | | mg/l |
| Duration of exposure | | 72 | h | | |

**2-Piperazin-1-ylethylamin**

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

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

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

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

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

**Amines, coco alkyl**

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

**Phenol , Methylstyrenated**

| | | | | | |
|---|---|---|---|---|---|
| Reference substance | Phenol , Methylstyrenated | | | | |
| Species | Scenedesmus subspicatus | | | | |
| EL50 | | 15 | | | mg/l |
| Duration of exposure | | 72 | h | | |
| Method | OECD 201 | | | | |

**Fettsäuren,Tallöl-,Reaktionsprodukte m. Tetraethylenpentamin**

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

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

| | | | | | |
|---|---|---|---|---|---|
| Reference substance | 2,4,6-Tri(dimethylaminomethyl)phenol | | | | |
| Species | Desmodesmus subspicatus | | | | |
| EC50 | | 84 | | | mg/l |
| Duration of exposure | | 72 | h | | |

### Bacteria toxicity (Components)

**Benzylalcohol**

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

**Benzylalcohol**

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

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

| | | | | | |
|---|---|---|---|---|---|
| Species | Pseudomonas putida | | | | |
| EC50 | | 89 | | | mg/l |

| | | |
|---|---|---|
| Duration of exposure | 17 | h |

**Fettsäuren,Tallöl-,Reaktionsprodukte m. Tetraethylenpentamin**

| | | |
|---|---|---|
| Species | activated sludge | |
| EC50 | 114 | mg/l |
| Duration of exposure | 3 | h |

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

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

### 12.2. Persistence and degradability

**General information**

not determined

### 12.3. Bioaccumulative potential

**General information**

not determined

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

Remarks: not determined

### 12.4. Mobility in soil

**General information**

not determined

### 12.5. Results of PBT and vPvB assessment

**General information**

not determined

### 12.7. Other adverse effects

**General information**

not determined

**General information / ecology**

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

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**Disposal recommendations for the product**

Allocation of a waste code number, according to the European Waste Catalogue (EWC), should be carried out in agreement with the regional waste disposal company.

**Disposal recommendations for packaging**

Packaging that cannot be cleaned should be disposed off in agreement with the regional waste disposal company.

## SECTION 14: Transport information

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

# SECTION 15: Regulatory information

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

### VOC

| | | | | |
|---|---|---|---|---|
| VOC (EU) | 3,99 | % | 39,1 | g/l |

## 15.2. Chemical safety assessment

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

# SECTION 16: Other information

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

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

| | |
|---|---|
| Acute Tox. 4 | H302 |
| Skin Corr. 1 | H314 |
| Eye Dam. 1 | H318 |
| Skin Sens. 1 | H317 |

| | |
|---|---|
| Repr. 2 | H361fd |
| STOT SE 3 | H335 |
| STOT RE 2 | H373 |
| Asp. Tox. 1 | H304 |
| Aquatic Acute 1 | H400 |
| Aquatic Chronic 1 | H410 |

## Hazard statements listed in Chapter 2/3

| | |
|---|---|
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H311 | Toxic in contact with skin. |
| H312 | Harmful in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| 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 |
| Eye Dam. 1 | Serious eye damage, Category 1 |
| Eye Irrit. 2 | Eye irritation, Category 2 |
| Repr. 2 | Reproductive toxicity, Category 2 |
| Skin Corr. 1 | Skin corrosion, Category 1 |
| Skin Corr. 1A | Skin corrosion, Category 1A |
| Skin Corr. 1B | Skin corrosion, Category 1B |
| Skin 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 |
| STOT SE 3 | Specific target organ toxicity - single exposure, Category 3 |

## 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.