

Trade name: Hardener FH-Super for cds-Mortar 0-1 FB

Version: 1.0 / EN

Date revised 09.12.2022

Substance number: 11405

Replaces Version: - / EN

Print date: 12.12.2022

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

### **1.1. Product identifier**

Hardener FH-Super for cds-Mortar 0-1 FB

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

#### **Use of the substance/preparation**

coating material

### **1.3. Details of the supplier of the safety data sheet**

#### **Address/Manufacturer**

cds Polymere GmbH &amp; Co. KG

Gau-Bickelheimer Str. 72

55576 Sprendlingen/Rhh.

Telephone no. +49(6701) 9350-0

Fax no. +49(6701) 9350-50

### **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      | H332  |
| Skin Corr. 1      | H314  |
| Eye Dam. 1        | H318  |
| Skin Sens. 1A     | H317  |
| Repr. 2           | H361f |
| Aquatic Chronic 3 | H412  |

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**

|       |  |
|-------|--|
| H332  | Harmful if inhaled.                                |
| H314  | Causes severe skin burns and eye damage.           |
| H317  | May cause an allergic skin reaction.               |
| H361f | Suspected of damaging fertility.                   |
| H412  | Harmful to aquatic life with long lasting effects. |

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EUH071 Corrosive to the respiratory tract.

**Precautionary statements**

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
 P273 Avoid release to the environment.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P310 Immediately call a POISON CENTER or doctor.

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

contains Benzylalcohol; 4-tert-Butylphenol; m-Phenylenbis(methylamin); Phenol, styrolisiert

**2.3. Other hazards**

No special hazards have to be mentioned.

**SECTION 3: Composition/information on ingredients****Hazardous ingredients****4-tert-Butylphenol**

CAS No. 98-54-4  
 EINECS no. 202-679-0  
 Registration no. 01-2119489419-21-XXXX  
 Concentration  $\geq$  25  $<$  50 %  
 Classification (Regulation (EC) No. 1272/2008)  
 Skin Irrit. 2 H315  
 Eye Dam. 1 H318  
 Repr. 2 H361f  
 Aquatic Chronic 1 H410

Concentration limits (Regulation (EC) No. 1272/2008)  
 Aquatic Chronic H410 M = 1  
 1

**m-Phenylenbis(methylamin)**

CAS No. 1477-55-0  
 EINECS no. 216-032-5  
 Registration no. 01-2119480150-50-XXXX  
 Concentration  $\geq$  25  $<$  50 %  
 Classification (Regulation (EC) No. 1272/2008)  
 Acute Tox. 4 H302  
 Aquatic Chronic 3 H412  
 Skin Corr. 1B H314  
 Acute Tox. 4 H332  
 Eye Dam. 1 H318  
 Skin Sens. 1B H317

**Benzylalcohol**

CAS No. 100-51-6  
 EINECS no. 202-859-9  
 Registration no. 01-2119492630-38-XXXX  
 Concentration  $\geq$  10  $<$  15 %  
 Classification (Regulation (EC) No. 1272/2008)  
 Acute Tox. 4 H302  
 Acute Tox. 4 H332

**Phenol, styrolisiert**

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|  |                       |      |   |    |   |
|--|-----------------------|------|---|----|---|
| CAS No.  | 61788-44-1            |      |   |    |   |
| EINECS no.                                     | 262-975-0             |      |   |    |   |
| Registration no.                               | 01-2119980970-27-XXXX |      |   |    |   |
| Concentration                                  | >=                    | 2,5  | < | 10 | % |
| Classification (Regulation (EC) No. 1272/2008) |                       |      |   |    |   |
|  | Skin Irrit. 2         | H315 |   |    |   |
|  | Skin Sens. 1A         | H317 |   |    |   |
|  | Aquatic Chronic 2     | H411 |   |    |   |

## **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.

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**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      8A      Combustible corrosive hazardous substances

**Further information on storage conditions**

Do not keep at temperatures above 20 °C.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Exposure limit values****Benzyl alcohol**

|       |          |                   |   |        |
|-------|----------|-------------------|---|--------|
| List  | TRGS 900 |                   |   |        |
| Type  | AGW      |                   |   |        |
| Value | 22       | mg/m <sup>3</sup> | 5 | ppm(V) |

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Maximum limit value: 2(l); Skin resorption / sensibilisation: H; Pregnancy group: Y; Status: 07.06.2018; Remarks: DFG, H, Y, 11

**m-Phenylenbis(methylamin)**

|       |       |                   |  |  |
|-------|-------|-------------------|--|--|
| List  | ACGIH |                   |  |  |
| Type  | C     |                   |  |  |
| Value | 0,1   | mg/m <sup>3</sup> |  |  |

**4-tert-Butylphenol**

|       |          |                   |      |        |
|-------|----------|-------------------|------|--------|
| List  | TRGS 900 |                   |      |        |
| Type  | AGW      |                   |      |        |
| Value | 0,5      | mg/m <sup>3</sup> | 0,08 | ppm(V) |

**Biological limit values****4-tert-Butylphenol**

|                  |                                     |      |  |  |
|------------------|-------------------------------------|------|--|--|
| List             | BGW (TRGS 903)                      |      |  |  |
| Value            | 2                                   | mg/l |  |  |
| Parameter        | 4-tert-Butylphenol                  |      |  |  |
| Testing material | Urine (U)                           |      |  |  |
| Test date        | End of exposure or end of shift (b) |      |  |  |

**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/m <sup>3</sup> |  |

|                      |                                |                   |  |
|----------------------|--------------------------------|-------------------|--|
| Type of value        | Benzylalcohol                  |                   |  |
| Reference group      | 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 <sup>3</sup> |  |

|                      |                                |       |  |
|----------------------|--------------------------------|-------|--|
| Type of value        | Benzylalcohol                  |       |  |
| Reference group      | 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 |  |

**m-Phenylenbis(methylamin)**

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

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|                   |        |       |
|-------------------|--------|-------|
| Reference group   | Worker |       |
| Route of exposure | dermal |       |
| Concentration     | 0,33   | mg/kg |

|                   |                                |                   |
|-------------------|--------------------------------|-------------------|
| Type of value     | Derived No Effect Level (DNEL) |                   |
| Reference group   | Worker                         |                   |
| Route of exposure | inhalative                     |                   |
| Concentration     | 1,2                            | mg/m <sup>3</sup> |

**Phenol, styrolisiert**

|                      |                                |       |
|----------------------|--------------------------------|-------|
| Reference substance  | Phenol, styrolisiert           |       |
| 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        | 2,1                            | mg/kg |

|                      |  |                   |
|----------------------|--|-------------------|
| Type of value        | Phenol, styrolisiert<br>Derived No Effect Level (DNEL) |                   |
| Reference group      | Worker   |                   |
| Duration of exposure | Long term  |                   |
| Route of exposure    | inhalative   |                   |
| Mode of action       | Systemic effects                                       |                   |
| Concentration        | 7,4  | mg/m <sup>3</sup> |

**4-tert-Butylphenol**

|                      |                                |       |
|----------------------|--------------------------------|-------|
| Type of value        | Derived No Effect Level (DNEL) |       |
| Reference group      | Worker                         |       |
| Duration of exposure | Long term                      |       |
| Route of exposure    | dermal                         |       |
| Concentration        | 0,071                          | mg/kg |

|                      |                                |                   |
|----------------------|--------------------------------|-------------------|
| Type of value        | Derived No Effect Level (DNEL) |                   |
| Reference group      | Worker                         |                   |
| Duration of exposure | Long term                      |                   |
| Route of exposure    | inhalative                     |                   |
| Concentration        | 0,5                            | mg/m <sup>3</sup> |

**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 |

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|               |                     |       |
|---------------|---------------------|-------|
| Type of value | Benzylalcohol       |       |
| Type          | PNEC                |       |
| Concentration | Freshwater sediment |       |
|               | 5,27                | mg/kg |

|               |                 |       |
|---------------|-----------------|-------|
| Type of value | Benzylalcohol   |       |
| Type          | PNEC            |       |
| Concentration | Marine sediment |       |
|               | 0,527           | mg/kg |

|               |               |       |
|---------------|---------------|-------|
| Type of value | Benzylalcohol |       |
| Type          | PNEC          |       |
| Concentration | Soil          |       |
|               | 0,456         | mg/kg |

**m-Phenylenbis(methylamin)**

|               |            |      |
|---------------|------------|------|
| Type of value | PNEC       |      |
| Type          | Freshwater |      |
| Concentration | 0,094      | mg/l |

|               |        |      |
|---------------|--------|------|
| Type of value | PNEC   |      |
| Type          | Marine |      |
| Concentration | 0,0094 | mg/l |

**Phenol, styrolisiert**

|                     |                      |      |
|---------------------|----------------------|------|
| Reference substance | Phenol, styrolisiert |      |
| Type of value       | PNEC                 |      |
| Type                | Freshwater           |      |
| Concentration       | 0,03                 | mg/l |

|               |                      |      |
|---------------|----------------------|------|
| Type of value | Phenol, styrolisiert |      |
| Type          | PNEC                 |      |
| Concentration | Marine               |      |
|               | 0,003                | mg/l |

**4-tert-Butylphenol**

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

|               |        |      |
|---------------|--------|------|
| Type of value | PNEC   |      |
| Type          | Marine |      |
| Concentration | 0,001  | mg/l |

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

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

**Respiratory protection**

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

**Hand protection**

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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****Form** liquid**Colour** yellowish**Odour** amine-like**Odour threshold**

Remarks not determined

**pH value**

Remarks not determined

**Melting point**

Remarks not determined

**Freezing point**

Remarks not determined

**Initial boiling point and boiling range**

Value &gt; 200 °C

**Flash point**

Value &gt; 100 °C

**Evaporation rate (ether = 1) :**

Remarks not determined

**Flammability (solid, gas)**

not determined

**Upper/lower flammability or explosive limits**

Lower explosion limit 1,2 %(V)

Upper explosion limit 13 %(V)

**Vapour pressure**

Value 4 hPa

Temperature 20 °C

**Vapour density**

Remarks not determined

**Density**Value 1 g/cm<sup>3</sup>

Temperature 23 °C

**Solubility in water**

Remarks not determined

**Solubility(ies)**

Remarks not determined

**Partition coefficient: n-octanol/water**

Remarks not determined

**Ignition temperature**



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|       |     |    |
|-------|-----|----|
| Value | 365 | °C |
|-------|-----|----|

**Decomposition temperature**

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

**Viscosity****dynamic**

|             |     |       |
|-------------|-----|-------|
| Value       | 110 | mPa.s |
| Temperature | 25  | °C    |

**Explosive properties**

|            |                |
|------------|----------------|
| evaluation | not determined |
|------------|----------------|

**Oxidising properties**

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

**9.2. Other information****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 toxicological effects****Acute oral toxicity**

|     |                |       |
|-----|----------------|-------|
| ATE | 1.639,14<br>48 | mg/kg |
|-----|----------------|-------|

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

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

**Acute oral toxicity (Components)****Benzylalcohol**

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

**Benzylalcohol**

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

**m-Phenylenbis(methylamin)**

|         |       |       |
|---------|-------|-------|
| Species | mouse |       |
| LD50    | 1180  | mg/kg |

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**m-Phenylenbis(methylamin)**

|         |     |     |       |
|---------|-----|-----|-------|
| Species | rat |     |       |
| LD50    |     | 980 | mg/kg |

**Phenol, styrolisiert**

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

**4-tert-Butylphenol**

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

**Acute dermal toxicity**

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

**Acute dermal toxicity (Components)****Benzylalcohol**

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

**m-Phenylenbis(methylamin)**

|         |        |      |       |
|---------|--------|------|-------|
| Species | rabbit |      |       |
| LD50    |        | 3100 | mg/kg |

**m-Phenylenbis(methylamin)**

|         |     |      |       |
|---------|-----|------|-------|
| Species | rat |      |       |
| LD50    | >   | 3100 | mg/kg |

**Phenol, styrolisiert**

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

**4-tert-Butylphenol**

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

**Acute inhalational toxicity**

|                     |  |         |      |
|---------------------|--|---------|------|
| ATE                 |  | 28,9474 | mg/l |
| Administration/Form | Vapors   |         |      |
| Method              | calculated value (Regulation (EC) No. 1272/2008) |         |      |
| ATE                 |  | 4,5938  | mg/l |
| Administration/Form | Dust/Mist  |         |      |
| Method              | calculated value (Regulation (EC) No. 1272/2008) |         |      |
| Remarks             | The classification criteria are met.             |         |      |

**Acute inhalative toxicity (Components)****4-tert-Butylphenol**

|                      |          |      |      |
|----------------------|----------|------|------|
| Species              | rat      |      |      |
| LC50                 |          | 5600 | mg/l |
| Duration of exposure |          | 4    | h    |
| Method               | OECD 403 |      |      |

**Benzylalcohol**

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

**m-Phenylenbis(methylamin)**

|                      |     |      |      |
|----------------------|-----|------|------|
| Species              | rat |      |      |
| LC50                 |     | 1,34 | mg/l |
| Duration of exposure |     | 4    | h    |

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|                             |           |   |      |
|-----------------------------|-----------|---|------|
| Administration/Form         | Dust/Mist |   |      |
| <b>Phenol, styrolisiert</b> |           |   |      |
| Species                     | mouse     |   |      |
| LC50                        | 158,3     |   | mg/l |
| Duration of exposure        | 4         | h |      |

**Skin corrosion/irritation**

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

**Serious eye damage/irritation**

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

**Sensitization**

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

**Subacute, subchronic, chronic toxicity**

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

**Mutagenicity**

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

**Reproductive toxicity**

|            |                                      |
|------------|--------------------------------------|
| evaluation | Suspected of damaging fertility.     |
| Remarks    | The classification criteria are met. |

**Carcinogenicity**

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

**Specific Target Organ Toxicity (STOT)**

|                        |   |
|------------------------|---|
| <b>Single exposure</b> |   |
| Remarks                | Based on available data, the classification criteria are not met. |

|                          |   |
|--------------------------|---|
| <b>Repeated exposure</b> |   |
| Remarks                  | Based on available data, the classification criteria are not met. |

**Aspiration hazard**

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

**Experience in practice**

|         |   |
|---------|---|
| Remarks | Inhalation may lead to irritation of the respiratory tract. |
|---------|---|

**Other information**

|         |                                      |
|---------|--------------------------------------|
| Remarks | No toxicological data are available. |
|---------|--------------------------------------|

**SECTION 12: Ecological information****12.1. Toxicity****General information**

|         |                |
|---------|----------------|
| Remarks | 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 |      |

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**m-Phenylenbis(methylamin)**

|                      |  |   |      |
|----------------------|--|---|------|
| Species              | rainbow trout ( <i>Oncorhynchus mykiss</i> ) |   |      |
| LC50                 | > 100  |   | mg/l |
| Duration of exposure | 96   | h |      |

**m-Phenylenbis(methylamin)**

|                      |                 |   |      |
|----------------------|-----------------|---|------|
| Species              | Oryzias latipes |   |      |
| LC50                 | 87,6            |   | mg/l |
| Duration of exposure | 96              | h |      |

**4-tert-Butylphenol**

|                      |  |   |      |
|----------------------|--|---|------|
| Species              | rainbow trout ( <i>Oncorhynchus mykiss</i> ) |   |      |
| LC50                 | > 1  |   | mg/l |
| Duration of exposure | 96   | h |      |

**4-tert-Butylphenol**

|                      |   |   |      |
|----------------------|---|---|------|
| Species              | Fathead minnow ( <i>Pimephales promelas</i> ) |   |      |
| LC50                 | 5,1   |   | mg/l |
| Duration of exposure | 96  | h |      |

**4-tert-Butylphenol**

|                      |                                       |   |      |
|----------------------|---------------------------------------|---|------|
| Species              | golden orfe ( <i>Leuciscus idus</i> ) |   |      |
| LC50                 | 1,5                                   |   | mg/l |
| Duration of exposure | 48                                    | h |      |

**Phenol, styrolisiert**

|                      |   |   |      |
|----------------------|---|---|------|
| Reference substance  | Phenol, styrolisiert                    |   |      |
| Species              | zebra fish ( <i>Brachydanio rerio</i> ) |   |      |
| LC50                 | 5,6                                     |   | mg/l |
| Duration of exposure | 96                                      | h |      |

**Daphnia toxicity (Components)****Benzylalcohol**

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

**m-Phenylenbis(methylamin)**

|                      |               |   |      |
|----------------------|---------------|---|------|
| Species              | Daphnia magna |   |      |
| EC50                 | 15,2          |   | mg/l |
| Duration of exposure | 48            | h |      |

**Phenol, styrolisiert**

|                      |                      |   |      |
|----------------------|----------------------|---|------|
| Reference substance  | Phenol, styrolisiert |   |      |
| Species              | Daphnia magna        |   |      |
| EC50                 | 4,6                  |   | mg/l |
| Duration of exposure | 48                   | h |      |

**4-tert-Butylphenol**

|                      |               |   |      |
|----------------------|---------------|---|------|
| Species              | Daphnia magna |   |      |
| EC50                 | 3,9           |   | mg/l |
| Duration of exposure | 48            | h |      |

**Algae toxicity (Components)****Benzylalcohol**

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

**m-Phenylenbis(methylamin)**

|                      |                                 |   |      |
|----------------------|---------------------------------|---|------|
| Species              | Pseudokirchneriella subcapitata |   |      |
| EC50                 | 33,3                            |   | mg/l |
| Duration of exposure | 72                              | h |      |

**Phenol, styrolisiert**

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|                      |                         |   |      |
|----------------------|-------------------------|---|------|
| Reference substance  | Phenol, styrolisiert    |   |      |
| Species              | Scenedesmus subspicatus |   |      |
| EL50                 | 3,14                    |   | mg/l |
| Duration of exposure | 72                      | h |      |

**4-tert-Butylphenol**

|                      |                           |     |      |
|----------------------|---------------------------|-----|------|
| Species              | Selenastrum capricornutum |     |      |
| EC50                 | <                         | 100 | mg/l |
| Duration of exposure | 72                        | h   |      |

**4-tert-Butylphenol**

|                      |                                 |   |      |
|----------------------|---------------------------------|---|------|
| Species              | Pseudokirchneriella subcapitata |   |      |
| EC50                 | 14                              |   | 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 |      |

**4-tert-Butylphenol**

|                      |                  |   |      |
|----------------------|------------------|---|------|
| Species              | activated sludge |   |      |
| EC50                 | 10               |   | mg/l |
| Duration of exposure | 3                | h |      |

**m-Phenylenbis(methylamin)**

|                      |                  |      |      |
|----------------------|------------------|------|------|
| Species              | activated sludge |      |      |
| EC50                 | >                | 1000 | mg/l |
| Duration of exposure | 0,5              | h    |      |

**12.2. Persistence and degradability****General information**

not determined

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

not determined

**Partition coefficient: n-octanol/water**

Remarks not determined

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

not determined

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

not determined

**12.6. 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**

|   | <b>Land transport ADR/RID</b>  | <b>Marine transport IMDG/GGVSee</b>  | <b>Air transport ICAO/IATA</b>   |
|---|--|--|--|
| Tunnel restriction code                 | E  |  |  |
| <b>14.1. UN number</b>                  | 2735   | 2735   | 2735   |
| <b>14.2. UN proper shipping name</b>    | POLYAMINES, LIQUID, CORROSIVE, N.O.S. (m-Phenylbis(methylamin), 4-tert-Butylphenol)                              | POLYAMINES, LIQUID, CORROSIVE, N.O.S. (m-Phenylbis(methylamin), 4-tert-Butylphenol)                      | POLYAMINES, LIQUID, CORROSIVE, N.O.S. (m-Phenylbis(methylamin))  |
| <b>14.3. Transport hazard class(es)</b> | 8  | 8  | 8  |
| Label                                   |                               |                      |                               |
| <b>14.4. Packing group</b>              | II   | II   | II   |
| Limited Quantity                        | 1 I  |  |  |
| Transport category                      | 2  |  |  |
| <b>14.5. Environmental hazards</b>      | <br>ENVIRONMENTALLY HAZARDOUS | Marine Pollutant<br> | <br>ENVIRONMENTALLY HAZARDOUS |

## **SECTION 15: Regulatory information**

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

#### **Water Hazard Class (Germany)**

Water Hazard Class (Germany)      WGK 3

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**VOC**

VOC (EU) 45 % 450 g/l

**15.2. Chemical safety assessment**

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

**SECTION 16: Other information****Hazard statements listed in Chapter 3**

|       |   |
|-------|---|
| H302  | Harmful if swallowed.                                 |
| H314  | Causes severe skin burns and eye damage.              |
| H315  | Causes skin irritation.                               |
| H317  | May cause an allergic skin reaction.                  |
| H318  | Causes serious eye damage.                            |
| H332  | Harmful if inhaled.                                   |
| H361f | Suspected of damaging fertility.                      |
| 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 3**

|                   |   |
|-------------------|---|
| Acute Tox. 4      | Acute toxicity, Category 4                                |
| Aquatic Chronic 1 | Hazardous to the aquatic environment, chronic, Category 1 |
| Aquatic Chronic 2 | Hazardous to the aquatic environment, chronic, Category 2 |
| Aquatic Chronic 3 | Hazardous to the aquatic environment, chronic, Category 3 |
| Eye Dam. 1        | Serious eye damage, Category 1                            |
| Repr. 2           | Reproductive toxicity, Category 2                         |
| Skin Corr. 1B     | Skin corrosion, Category 1B                               |
| Skin Irrit. 2     | Skin irritation, Category 2                               |
| Skin Sens. 1A     | Skin sensitization, Category 1A                           |
| Skin Sens. 1B     | Skin sensitization, Category 1B                           |

**Information about Safety Data Sheets Preparers**

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**Supplemental information**

This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.