

Trade name: Hardener FH-Super for cds-Mortar 0-3 L flex special

Version: 1 / GB

Date revised: 17.05.2023

Substance number: 10294

Replaces Version: - / GB

Print date: 17.05.2023

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

1.1. Product identifier

Hardener FH-Super for cds-Mortar 0-3 L flex special

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)

Skin Corr. 1	H314
Eye Dam. 1	H318
Skin Sens. 1A	H317
Repr. 2	H361fd
STOT RE 2	H373
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

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.
H373	May cause damage to organs through prolonged or repeated exposure.

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H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.
 P273 Avoid release to the environment.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P310 Immediately call a POISON CENTER or doctor.

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

contains 2-Piperazin-1-ylethylamin; 4-tert-Butylphenol; Reaction mass of (1-Phenylethyl)phenols and bis-(1-phenylethyl)phenols; (Z)-octadec-9-enylamine; m-Phenylenbis(methylamin)

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 ≥ 10 < 25 %
 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

Supplemental information

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

m-Phenylenbis(methylamin)

CAS No. 1477-55-0
 EINECS no. 216-032-5
 Registration no. 01-2119480150-50-XXXX
 Concentration ≥ 10 < 25 %
 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

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

EINECS no. 701-443-9
 Registration no. 01-2119980970-27-XXXX
 Concentration ≥ 10 < 25 %
 Classification (Regulation (EC) No. 1272/2008)
 Skin Irrit. 2 H315

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Skin Sens. 1A H317
Aquatic Chronic 2 H411

CAS No. POLYMER
Concentration ≥ 10 < 25 %
Classification (Regulation (EC) No. 1272/2008)
Eye Dam. 1 H318
Skin Sens. 1 H317
Aquatic Chronic 3 H412

(Z)-octadec-9-enylamine

CAS No. 112-90-3
EINECS no. 204-015-5
Registration no. 01-2119473797-19-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 1 M = 10

Urethane Prepolymer

Concentration ≥ 1 < 10 %
Classification (Regulation (EC) No. 1272/2008)
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 ≥ 1 < 5 %
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

Benzylalcohol

CAS No. 100-51-6
EINECS no. 202-859-9
Registration no. 01-2119492630-38-XXXX
Concentration ≥ 1 < 2,5 %
Classification (Regulation (EC) No. 1272/2008)
Acute Tox. 4 H302
Acute Tox. 4 H332

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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.

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

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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.

Storage classes

Storage class according to TRGS 510 8 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

m-Phenylenbis(methylamin)

List	ACGIH		
Type	C		
Value	0,1	mg/m ³	

m-Phenylenbis(methylamin)

List	MAK(GKV 2003)		
Remarks:	als Dampf und Aerosol; vgl. Abschn. IV		

4-tert-Butylphenol

List	TRGS 900			
Type	AGW			
Value	0,5	mg/m ³	0,08	ppm(V)

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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 ³

Type of value	Benzylalcohol 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	Benzylalcohol 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/m ³

Type of value	2-Piperazin-1-ylethylamin Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Acute	

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Route of exposure inhalative
 Mode of action Systemic effects
 Concentration 10,6 mg/m³

Type of value 2-Piperazin-1-ylethylamin
 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

Type of value 2-Piperazin-1-ylethylamin
 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

Type of value 2-Piperazin-1-ylethylamin
 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 2-Piperazin-1-ylethylamin
 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

m-Phenylenbis(methylamin)

Type of value Derived No Effect Level (DNEL)
 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/m³

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

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Type of value	Reaction mass of (1-Phenylethyl)phenols and bis-(1-phenylethyl)phenols	
Reference group	Derived No Effect Level (DNEL)	
Duration of exposure	Worker	
Route of exposure	Long term	
Mode of action	inhalative	
Concentration	Systemic effects	
	1,21	mg/m ³

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 ³

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

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

2-Piperazin-1-ylethylamin

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Reference substance	2-Piperazin-1-ylethylamin	
Type of value	PNEC	
Type	Freshwater	
Concentration	0,058	mg/l
Type of value	2-Piperazin-1-ylethylamin	
Type	PNEC	
Type	Marine	
Concentration	0,0058	mg/l
Type of value	2-Piperazin-1-ylethylamin	
Type	PNEC	
Type	Water (intermittent release)	
Concentration	0,58	mg/l
Type of value	2-Piperazin-1-ylethylamin	
Type	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	250	mg/l
Type of value	2-Piperazin-1-ylethylamin	
Type	PNEC	
Type	Sediment	
Concentration	215	mg/kg
Type of value	2-Piperazin-1-ylethylamin	
Type	PNEC	
Type	Marine sediment	
Concentration	21,5	mg/kg
Type of value	2-Piperazin-1-ylethylamin	
Type	PNEC	
Type	Soil	
Concentration	1	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

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

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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

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		

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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	1,05		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 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	1.817,90	mg/kg
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Method 39
 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

2-Piperazin-1-ylethylamin

Reference substance Ethylbenzene
 Species rat
 LD50 2140 mg/kg

m-Phenylenbis(methylamin)

Species mouse
 LD50 1180 mg/kg

m-Phenylenbis(methylamin)

Species rat
 LD50 980 mg/kg

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

Species rat
 LD50 > 2000 mg/kg
 Method OECD 423

4-tert-Butylphenol

Species rat
 LD50 > 2000 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

2-Piperazin-1-ylethylamin

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

m-Phenylenbis(methylamin)

Species rabbit
 LD50 3100 mg/kg

m-Phenylenbis(methylamin)

Species rat
 LD50 > 3100 mg/kg

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

Species rat
 LD50 > 2000 mg/kg
 Method OECD 402

4-tert-Butylphenol

Species rabbit
 LD50 > 2000 mg/kg

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Acute inhalational toxicity

ATE	59,0709	mg/l
Administration/Form	Vapors	
Method	calculated value (Regulation (EC) No. 1272/2008)	
ATE	7,6242	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	

m-Phenylenbis(methylamin)

Species	rat	
LC50	1,34	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	
Method	OECD 403	

4-tert-Butylphenol

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

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
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Mutagenicity

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

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

Carcinogenicity

Remarks	Based on available data, the classification criteria are not met.
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Specific Target Organ Toxicity (STOT)

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Single exposure

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

Repeated exposureRemarks The classification criteria are met.
evaluation May cause damage to organs through prolonged or repeated exposure**Aspiration hazard**

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

11.2 Information on other hazards**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**2-Piperazin-1-ylethylamin**Species Fathead minnow (*Pimephales promelas*)
LC50 2190 mg/l
Duration of exposure 96 h**m-Phenylenbis(methylamin)**Species rainbow trout (*Oncorhynchus mykiss*)
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**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**4-tert-Butylphenol**Species rainbow trout (*Oncorhynchus mykiss*)
LC50 > 1 mg/l
Duration of exposure 96 h**4-tert-Butylphenol**Species Fathead minnow (*Pimephales promelas*)
LC50 5,1 mg/l

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Duration of exposure 96 h

4-tert-Butylphenol

Species golden orfe (*Leuciscus idus*)
 LC50 1,5 mg/l
 Duration of exposure 48 h

Daphnia toxicity (Components)**Benzylalcohol**

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

2-Piperazin-1-ylethylamin

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

m-Phenylenbis(methylamin)

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

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

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

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

2-Piperazin-1-ylethylamin

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

m-Phenylenbis(methylamin)

Species *Pseudokirchneriella subcapitata*
 EC50 33,3 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

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

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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

m-Phenylenbis(methylamin)

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

4-tert-Butylphenol

Species	activated sludge	
EC50	10	mg/l
Duration of exposure	3	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.

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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. (m-Phenylenbis(methylamin), (Z)-octadec-9-enylamine)	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (m-Phenylenbis(methylamin), (Z)-octadec-9-enylamine)	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (m-Phenylenbis(methylamin), (Z)-octadec-9-enylamine)
14.3. Transport hazard class(es)	8	8	8
Label			
14.4. Packing group	III	III	III
Limited Quantity	5 l	5 l	
Transport category	3		
14.5. Environmental hazards	 ENVIRONMENTALLY HAZARDOUS	Marine Pollutant  ENVIRONMENTALLY HAZARDOUS	 ENVIRONMENTALLY HAZARDOUS
Tunnel restriction code	E		

SECTION 15: Regulatory information

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

VOC

VOC (EU) 22,54 % 236,7 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)

Skin Corr. 1 H314
Eye Dam. 1 H318

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Skin Sens. 1A	H317
Repr. 2	H361fd
STOT RE 2	H373
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.
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.
H335	May cause respiratory irritation.
H361	Suspected of damaging fertility or the unborn child.
H361f	Suspected of damaging fertility.
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
Repr. 2	Reproductive toxicity, Category 2
Skin Corr. 1	Skin corrosion, Category 1
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
Skin Sens. 1B	Skin sensitization, Category 1B
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.