

Date revised: 16.02.2023

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

Version: 1 / GB

Substance number: 10293 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 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. 1A H314 Eye Dam. 1 H318 Skin Sens. 1A H317 Repr. 2 H361fd STOT SE 3 H335 STOT RE 1 H372 Asp. Tox. 1 H304 Aquatic Acute 1 H400 H410 Aquatic Chronic 1

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.



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

Version: 1 / GB Date revised: 16.02.2023

Substance number: 10293 Replaces Version: - / GB Print date: 17.05.2023

H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.

H335 May cause respiratory irritation.

H372 Causes 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; Polyoxypropylendiamin; Reaction mass of (1-

Phenylethyl)phenols and bis-(1-phenylethyl)phenols; Amines, coco alkyl; (Z)-

octadec-9-enylamine

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 >= 20 < 25 %

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 = 10Aquatic Chronic M = 10

ı

2-Piperazin-1-ylethylamin

CAS No. 140-31-8 EINECS no. 205-411-0

Registration no. 01-2119471486-30-XXXX

Concentration >= 10 < 25 %



Print date: 17.05.2023

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

Version: 1 / GB Date revised: 16.02.2023

Substance number: 10293 Replaces Version: - / GB

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

Polyoxypropylendiamin

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

Registration no. 01-2119557899-12-XXXX

Concentration >= 5 < 10 %

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

Skin Corr. 1C H314 Eye Dam. 1 H318 Aquatic Chronic 3 H412

Urethane Prepolymer

Concentration >= 1 < 10 %

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

Acute Tox. 4 H302

Amines, coco alkyl

CAS No. 61788-46-3 EINECS no. 262-977-1

Registration no. 01-2119473798-17-XXXX

Concentration >= 5 < 10 %

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

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

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

Aquatic Acute 1 M = 10Aquatic Chronic M = 10

1

2,4,6-Tri(dimethylaminomethyl)phenol

CAS No. 90-72-2 EINECS no. 202-013-9

Registration no. 01-2119560597-27-XXXX

Concentration >= 1 < 10 %

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

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

SECTION 4: First aid measures



Date revised: 16.02.2023

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

Version: 1 / GB

Substance number: 10293 Replaces Version: - / GB Print date: 17.05.2023

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.



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

Version: 1 / GB Date revised: 16.02.2023

Substance number: 10293 Replaces Version: - / GB Print date: 17.05.2023

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

Other information

Contains no substances with occupational exposure limit values.

Derived No/Minimal Effect Levels (DNEL/DMEL)

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



Print date: 17.05.2023

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

Version: 1 / GB Date revised: 16.02.2023

Substance number: 10293 Replaces Version: - / GB

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

Duration of exposure

Route of exposure

Mode of action

Consequents:

Worker

Long term

inhalative

Local effects

Concentration 0,015 mg/m³

2-Piperazin-1-ylethylamin

Type of value Derived No Effect Level (DNEL)

Reference group

Duration of exposure

Route of exposure

Mode of action

Worker

Short term
inhalative
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)



Print date: 17.05.2023

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

Version: 1 / GB Date revised: 16.02.2023

mg/l

Substance number: 10293 Replaces Version: - / GB

Reference group Worker
Duration of exposure Long term
Route of exposure inhalative
Mode of action Systemic effects

Concentration 0,38 mg/m³

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

 $2,\!4,\!6\text{-}Tri(dimethylaminomethyl) phenol\\$

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

 $2,\!4,\!6\text{-Tri}(dimethylaminomethyl) phenol$

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)

2-Piperazin-1-ylethylamin

Reference substance 2-Piperazin-1-ylethylamin

Type of value PNEC
Type Freshwater
Concentration 0,058

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



Print date: 17.05.2023

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

Version: 1 / GB Date revised: 16.02.2023

Substance number: 10293 Replaces Version: - / GB

2-Piperazin-1-ylethylamin

PNEC Type of value

Type Sewage treatment plant (STP)

Concentration mg/l

2-Piperazin-1-ylethylamin

Type of value **PNEC**

Type Sediment

Concentration 215 mg/kg

2-Piperazin-1-ylethylamin

Type of value **PNEC**

Marine sediment Type

Concentration 21.5 mg/kg

2-Piperazin-1-ylethylamin

PNEC Type of value Type Soil

Concentration 1 mg/kg

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

Reaction mass of (1-Phenylethyl)phenols and bis-(1-Reference substance

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

0,00026 Concentration mg/l

Amines, coco alkyl

Type of value **PNEC** Туре Marine

0.000026 Concentration 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**

Freshwater sediment Type

0,1794 Concentration mg/kg

Amines, coco alkyl

PNEC Type of value

Marine sediment Type



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

Version: 1 / GB Date revised: 16.02.2023

Substance number: 10293 Replaces Version: - / GB Print date: 17.05.2023

Concentration 0.01794 mg/kg

Amines, coco alkyl

Type of value **PNEC** Soil Type

Concentration 10 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

0,005 Concentration 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**

Marine sediment Type

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



Date revised: 16.02.2023

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

Version: 1 / GB

Substance number: 10293 Replaces Version: - / GB Print date: 17.05.2023

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 0,93 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



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

Version: 1 / GB Date revised: 16.02.2023

Substance number: 10293 Replaces Version: - / GB Print date: 17.05.2023

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 1.230,97 mg/kg

43

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

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

Acute oral toxicity (Components)

2-Piperazin-1-ylethylamin

Reference substance Ethylbenzene

Species rat

LD50 2140 mg/kg

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

Species rat

LD50 > 2000 mg/kg

Method OECD 423

Amines, coco alkyl

Species rat

LD50 > 300 to 2000 mg/kg

Polyoxypropylendiamin

Species rat

LD50 2885 mg/kg

Method OECD 401

2,4,6-Tri(dimethylaminomethyl)phenol

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



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

Version: 1 / GB Date revised: 16.02.2023

Substance number: 10293 Replaces Version: - / GB Print date: 17.05.2023

Species rat

LD50 2169 mg/kg

Acute dermal toxicity

ATE 5.275,66 mg/kg

25

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

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

Acute dermal toxicity (Components)

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

Polyoxypropylendiamin

Species rabbit

LD50 2980 mg/kg

Method OECD 402

Acute inhalational toxicity

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

Acute inhalative toxicity (Components)

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

Species rat

LC0 4,9 mg/l

Duration of exposure 4 h

Administration/Form Dust/Mist Method OECD 403

Skin corrosion/irritation

evaluation corrosive

Remarks The classification criteria are met.

Skin corrosion/irritation (Components)

Amines, coco alkyl

Species rabbit evaluation corrosive

Serious eye damage/irritation

evaluation corrosive

Remarks The classification criteria are met.

Sensitization

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



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

Version: 1 / GB Date revised: 16.02.2023

Substance number: 10293 Replaces Version: - / GB Print date: 17.05.2023

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 Causes 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)

2-Piperazin-1-ylethylamin

Species Fathead minnow (Pimephales promelas)
LC50 2190 mg/l

Duration of exposure 96 h

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

Species zebra fish (Brachydanio rerio)

LL50 14,8 mg/l

Duration of exposure 96 h

Method OECD 203

Amines, coco alkyl

Reference substance Amines, coco alkyl

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

Polyoxypropylendiamin

Species rainbow trout (Oncorhynchus mykiss)
EC50 > 15 mg/l

Duration of exposure 96 h

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)



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

Version: 1 / GB Date revised: 16.02.2023

Substance number: 10293 Replaces Version: - / GB Print date: 17.05.2023

2-Piperazin-1-ylethylamin

Species Daphnia magna

EC50 58 mg/l

Duration of exposure 48 h

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

Species Daphnia magna

EC50 4,6 mg/l

Duration of exposure 48 h

Method OECD 202

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

Polyoxypropylendiamin

Species Daphnia magna

EC50 80 mg/l

Duration of exposure 48 h

Method OECD 202

Algae toxicity (Components)

2-Piperazin-1-ylethylamin

Species Pseudokirchneriella subcapitata

EC50 > 1000 mg/l

Duration of exposure 72 h

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

Species Scenedesmus subspicatus

EL50 3,14 mg/l

Duration of exposure 72 h

Method OECD 201

Amines, coco alkyl

Reference substance Amines, coco alkyl

Species Scenedesmus subspicatus

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

Duration of exposure 72 h

Polyoxypropylendiamin

Species Selenastrum capricornutum

ErC50 15 mg/l

Duration of exposure 72 h

Method OECD 201

Polyoxypropylendiamin

Reference substance Polyoxypropylendiamin Species Skeletonema costatum

EbC50 141 mg/l

Duration of exposure 2 h Method DIN EN ISO 10253

2,4,6-Tri(dimethylaminomethyl)phenol

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

Species Desmodesmus subspicatus



Print date: 17.05.2023

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

Version: 1 / GB Date revised: 16.02.2023

Substance number: 10293 Replaces Version: - / GB

EC50 84 mg/l

Duration of exposure 72 h

Bacteria toxicity (Components)

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



Date revised: 16.02.2023

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

Version: 1 / GB

Substance number: 10293 Replaces Version: - / GB Print date: 17.05.2023

	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			8
14.4. Packing group	П	II	П
Limited Quantity	11	11	
Transport category	2		
14.5. Environmental hazards	****	Marine Pollutant	¥2
	ENVIRONMENTALLY HAZARDOUS	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) 0,38 % 3,5 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. 1A
 H314

 Eye Dam. 1
 H318

 Skin Sens. 1A
 H317

 Repr. 2
 H361fd



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

Version: 1 / GB Date revised: 16.02.2023

Substance number: 10293 Replaces Version: - / GB Print date: 17.05.2023

STOT SE 3 H335 STOT RE 1 H372 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. H314 Causes severe skin burns and eye damage. Causes skin irritation. H315 May cause an allergic skin reaction. H317 Causes serious eye damage. H318 Causes serious eye irritation. H319 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. Very toxic to aquatic life with long lasting effects. H410 Toxic to aquatic life with long lasting effects. H411

Harmful to aquatic life with long lasting effects.

CLP categories listed in Chapter 2/3

H412

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

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 Irrit. 2Skin irritation, Category 2Skin Sens. 1Skin sensitization, Category 1Skin Sens. 1ASkin 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.