

Trade name: Hardener FH-NF for cds-Cable-Joint-Filler

Version: 1.0 / EN

Date revised 17.02.2022

Substance number: 10290

Replaces Version: - / EN

Print date: 17.02.2022

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

1.1. Product identifier

Hardener FH-NF for cds-Cable-Joint-Filler

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

Use of the substance/preparation

coating material

1.3. Details of the supplier of the safety data sheet

Address/Manufacturer

cds Polymere GmbH & Co. KG

Gau-Bickelheimer Str. 72

55576 Sprendlingen/Rhh.

Telephone no. +49(6701) 9350-0

Fax no. +49(6701) 9350-50

1.4. Emergency telephone number

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

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

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

Acute Tox. 4	H302
Acute Tox. 4	H312
Skin Corr. 1	H314
Eye Dam. 1	H318
Skin Sens. 1	H317
Repr. 2	H361fd
STOT SE 3	H335
STOT RE 1	H372
Asp. Tox. 1	H304
Aquatic Acute 1	H400
Aquatic Chronic 1	H410

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

For explanation of abbreviations see section 16.

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

Hazard pictograms



Signal word

Danger

Hazard statements

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H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H335	May cause respiratory irritation.
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; Phenol, styrolisiert; Kokosalkylamine; (Z)-Octadec-9-enylamin; Benzylalcohol; 2,2,4-Trimethylhexan-1,6-Diamin; Urethane Prepolymer; 2,4,6-Tri(dimethylaminomethyl)phenol; Phenol, Methylstyrenated
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2.3. Other hazards

No special hazards have to be mentioned.

SECTION 3: Composition/information on ingredients**Hazardous ingredients****Phenol, styrolisiert**

CAS No.	61788-44-1
EINECS no.	262-975-0
Registration no.	01-2119980970-27-XXXX
Concentration	>= 25 < 50 %
Classification (Regulation (EC) No. 1272/2008)	
	Skin Irrit. 2 H315
	Skin Sens. 1 H317
	Aquatic Chronic 2 H411

(Z)-Octadec-9-enylamin

CAS No.	112-90-3
EINECS no.	204-015-5
Registration no.	01-2119473797-19-0001
Concentration	>= 25 < 38 %
Classification (Regulation (EC) No. 1272/2008)	
	Acute Tox. 4 H302
	Asp. Tox. 1 H304
	Skin Corr. 1B H314
	STOT SE 3 H335
	STOT RE 2 H373
	Aquatic Acute 1 H400
	Aquatic Chronic 1 H410

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

Aquatic Acute 1	M = 10
Aquatic Chronic 1	M = 10

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2-Piperazin-1-ylethylamin

CAS No. 140-31-8
 EINECS no. 205-411-0
 Registration no. 01-2119471486-30-XXXX
 Concentration \geq 10 < 20 %
 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

Urethane Prepolymer

Concentration \geq 10 < 16 %
 Classification (Regulation (EC) No. 1272/2008)
 Acute Tox. 4 H302

Benzylalcohol

CAS No. 100-51-6
 EINECS no. 202-859-9
 Registration no. 01-2119492630-38-XXXX
 Concentration \geq 1 < 7 %
 Classification (Regulation (EC) No. 1272/2008)
 Acute Tox. 4 H302
 Acute Tox. 4 H332

Kokosalkylamine

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

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

Aquatic Acute 1 M = 10

Aquatic Chronic M = 10

1

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

CAS No. 25513-64-8
 EINECS no. 247-063-2
 Registration no. 01-2119560598-25-XXXX
 Concentration \geq 1 < 3 %
 Classification (Regulation (EC) No. 1272/2008)
 Skin Corr. 1A H314
 Acute Tox. 4 H302
 Skin Sens. 1 H317

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2,4,6-Tri(dimethylaminomethyl)phenol

CAS No.	90-72-2
EINECS no.	202-013-9
Registration no.	01-2119560597-27-XXXX
Concentration	>= 1 < 3 %
Classification (Regulation (EC) No. 1272/2008)	
Skin Irrit. 2	H315
Eye Dam. 1	H319
Acute Tox. 4	H302

Phenol , Methylstyrenated

CAS No.	68512-30-1
EINECS no.	270-966-8
Registration no.	01-2119555274-38-XXXX
Concentration	>= 0,1 < 1 %
Classification (Regulation (EC) No. 1272/2008)	
Skin Irrit. 2	H315
Skin Sens. 1	H317
Aquatic Chronic 3	H412

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

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

After inhalation

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

After skin contact

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

After eye contact

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

After ingestion

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

Adhere to personal protective measures when giving first aid

First aider: Pay attention to self-protection!

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

Until now no symptoms known so far.

4.3. Indication of any immediate medical attention and special treatment needed**Hints for the physician / hazards**

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

SECTION 5: Firefighting measures**5.1. Extinguishing media**

Suitable extinguishing media

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Dry powder

Non suitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

In case of combustion evolution of dangerous gases possible.

5.3. Advice for firefighters**Special protective equipment for fire-fighting**

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

Other information

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

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

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

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

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

6.4. Reference to other sections

Refer to protective measures listed in Sections 7 and 8.

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

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

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

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

Hints on storage assembly

Do not store together with foodstuffs.

Storage classes

Storage class according to TRGS 510 8

Corrosive hazardous substances

Further information on storage conditions

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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/m³ 5 ppm(V)

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

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

Type of value	Derived No Effect Level (DNEL)
Reference group	Worker
Duration of exposure	Long term
Route of exposure	inhalative
Concentration	22 mg/m ³

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

Phenol, styrolisiert

Type of value	Derived No Effect Level (DNEL)
Reference group	Worker
Route of exposure	dermal
Concentration	2,1 mg/kg

Type of value	Derived No Effect Level (DNEL)
Reference group	Worker
Route of exposure	inhalative
Concentration	7,4 mg/m ³

Kokosalkylamine

Type of value	Derived No Effect Level (DNEL)
Reference group	Worker
Duration of exposure	Long term
Route of exposure	inhalative

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Mode of action	Systemic effects	
Concentration	0,38	mg/m ³

Phenol , Methylstyrenated

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

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

Type of value	Derived No Effect Level (DNEL)	
Reference group	General Population	
Duration of exposure	Long term	
Route of exposure	oral	
Concentration	0,2	mg/kg

Type of value	Derived No Effect Level (DNEL)	
Reference group	General Population	
Duration of exposure	Long term	
Route of exposure	dermal	
Concentration	1,7	mg/kg

Type of value	Derived No Effect Level (DNEL)	
Reference group	General Population	
Duration of exposure	Long term	
Route of exposure	inhalative	
Concentration	0,35	mg/m ³

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	0,13	mg/m ³

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	0,15	mg/kg/d

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

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Type of value	PNEC	
Type	Saltwater	
Concentration	0,1	mg/l

Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	39	mg/l

2-Piperazin-1-ylethylamin

Type of value	PNEC	
Type	Freshwater	
Concentration	0,058	mg/l

Type of value	PNEC	
Type	Marine	
Concentration	0,0058	mg/l

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

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

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

Phenol, styrolisiert

Type of value	PNEC	
Type	Freshwater	
Concentration	0,03	mg/l

Type of value	PNEC	
Type	Marine	
Concentration	0,003	mg/l

Kokosalkylamine

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

Type of value	PNEC	
Type	Marine	
Concentration	0,000026	mg/l

Phenol, Methylstyrenated

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

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

2,4,6-Tri(dimethylaminomethyl)phenol

Type of value	PNEC	
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Type	Water		
Concentration	0,084		mg/l
Type of value	PNEC		
Type	Marine		
Concentration	0,008		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

Form	liquid		
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			
Remarks	not determined		
Flash point			
Value	> 100		°C
Evaporation rate (ether = 1) :			
Remarks	not determined		
Flammability (solid, gas)			
not determined			
Upper/lower flammability or explosive limits			
Remarks	not determined		
Vapour pressure			
Remarks	not determined		
Vapour density			

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Remarks not determined

Density

Value	0,98		g/cm ³
Temperature	23	°C	

Solubility in water

Remarks not determined

Solubility(ies)

Remarks not determined

Partition coefficient: n-octanol/water

Remarks not determined

Ignition temperature

Remarks not determined

Decomposition temperature

Remarks not determined

Viscosity

Remarks not determined

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	1.139,54	mg/kg
	66	

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

Remarks The classification criteria are met.

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Acute oral toxicity (Components)**Benzylalcohol**

Species	mouse			
LD50		1040		mg/kg

Benzylalcohol

Species	rat			
LD50		1662		mg/kg

2-Piperazin-1-ylethylamin

Species	rat			
LD50	>	2000	to	5000 mg/kg

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

Species	rat			
LD50		910		mg/kg

Phenol, styrolisiert

Species	rat			
LD50	>	2000		mg/kg

Kokosalkylamine

Species	rat			
LD50	>	300	to	2000 mg/kg

Phenol, Methylstyrenated

Species	rabbit			
LD50		3600		mg/kg

Phenol, Methylstyrenated

Species	rat			
LD50	>	2000		mg/kg

2,4,6-Tri(dimethylaminomethyl)phenol

Species	rat			
LD50		2169		mg/kg

Acute dermal toxicity

ATE		1.762,11		mg/kg
		45		

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

Acute dermal toxicity (Components)**Benzylalcohol**

Species	rabbit			
LD50	>	2000		mg/kg

2-Piperazin-1-ylethylamin

Species	rabbit			
LD50	>	200	to	1000 mg/kg

Phenol, styrolisiert

Species	rat			
LD50	>	2000		mg/kg

Phenol, Methylstyrenated

Species	rabbit			
LD50		2000		mg/kg

Phenol, Methylstyrenated

Species	rat			
LD50	>	2000		mg/kg

Acute inhalational toxicity

ATE	>	100		mg/l
Administration/Form		Vapors		

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

Acute inhalative toxicity (Components)**Benzylalcohol**

Species rat

Phenol, styrolisiert

Species mouse

LC50 158,3 mg/l

Duration of exposure 4 h

Phenol, Methylstyrenated

Species rat

LC0 4,9 mg/l

Duration of exposure 4 h

Administration/Form Vapors

Method OECD 403

Skin corrosion/irritation

evaluation corrosive

Remarks The classification criteria are met.

Skin corrosion/irritation (Components)**Kokosalkylamine**

Species rabbit

evaluation corrosive

Phenol, Methylstyrenated

Species rabbit

evaluation irritant

Method OECD 404

2,4,6-Tri(dimethylaminomethyl)phenol

Species rabbit

Duration of exposure < 4 h

evaluation corrosive

Serious eye damage/irritation

evaluation corrosive

Remarks The classification criteria are met.

Serious eye damage/irritation (Components)**Phenol, Methylstyrenated**

Species rabbit

evaluation non-irritant

Method OECD 405

Sensitization

evaluation May cause sensitization by skin contact.

Remarks The classification criteria are met.

Subacute, subchronic, chronic toxicity

Remarks not determined

Mutagenicity

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

Reproductive toxicity

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

Remarks The classification criteria are met.

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Carcinogenicity

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

Specific Target Organ Toxicity (STOT)**Single exposure**Remarks The classification criteria are met.
evaluation May cause respiratory irritation.**Repeated exposure**Remarks The classification criteria are met.
evaluation Causes damage to organs through prolonged or repeated exposure**Specific Target Organ Toxicity (STOT) (Components)****Kokosalkylamine**

evaluation May cause respiratory irritation.

Aspiration hazardThe classification criteria are met.
Harmful: may cause lung damage if swallowed.**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**2,2,4-Trimethylhexan-1,6-Diamin**Species golden orfe (*Leuciscus idus*)
LC50 174 mg/l
Duration of exposure 48 h**Phenol, styrolisiert**Species zebra fish (*Brachydanio rerio*)
LC50 5,6 mg/l
Duration of exposure 96 h**Kokosalkylamine**Species Fathead minnow (*Pimephales promelas*)
LC50 > 0,01 to 0,1 mg/l**2,4,6-Tri(dimethylaminomethyl)phenol**

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

Daphnia toxicity (Components)

Benzylalcohol

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

2-Piperazin-1-ylethylamin

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

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

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

Phenol, styrolisiert

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

Kokosalkylamine

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

Phenol, Methylstyrenated

Species	Daphnia magna		
EL50	51		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	

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

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

Phenol, styrolisiert

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

Kokosalkylamine

Species	Scenedesmus subspicatus		
EC50	> 0,01	to 0,1	mg/l
Duration of exposure	72	h	

Phenol, Methylstyrenated

Species	Scenedesmus subspicatus		
EL50	15		mg/l
Duration of exposure	72	h	

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Print date: 17.02.2022

2,4,6-Tri(dimethylaminomethyl)phenol

Species	Desmodemus subspicatus	
EC50	84	mg/l
Duration of exposure	72	h

Bacteria toxicity (Components)**Benzylalcohol**

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

Benzylalcohol

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

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

Species	Pseudomonas putida	
EC50	89	mg/l
Duration of exposure	17	h

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

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.

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.

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Disposal recommendations for packaging

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

SECTION 14: Transport information

	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
Tunnel restriction code	E		
14.1. UN number	2735	2735	2735
14.2. UN proper shipping name	POLYAMINES, LIQUID, CORROSIVE, N.O.S. ((Z)-Octadec-9-enylamin, 2-Piperazin-1-ylethylamin)	POLYAMINES, LIQUID, CORROSIVE, N.O.S. ((Z)-Octadec-9-enylamin, 2-Piperazin-1-ylethylamin)	POLYAMINES, LIQUID, CORROSIVE, N.O.S. ((Z)-Octadec-9-enylamin, 2-Piperazin-1-ylethylamin)
14.3. Transport hazard class(es)	8	8	8
Label			
14.4. Packing group	II	II	II
Limited Quantity	1 I		
Transport category	2		
14.5. Environmental hazards	 ENVIRONMENTALLY HAZARDOUS	Marine Pollutant 	 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 WGK 3
(Germany)

VOC

VOC (EU) 5,15 % 50,5 g/l

15.2. Chemical safety assessment

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

SECTION 16: Other information

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Hazard statements listed in Chapter 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.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H361	Suspected of damaging fertility or 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 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. 1A	Skin corrosion, Category 1A
Skin Corr. 1B	Skin corrosion, Category 1B
Skin Irrit. 2	Skin irritation, Category 2
Skin Sens. 1	Skin sensitization, Category 1
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

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.