

Trade name: Hardener for cds-AGL BaseGrout UW flex

Version: 3 / GB

Date revised: 17.12.2025

Substance number: 19443

Replaces Version: 2 / GB

Print date: 17.12.2025

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

1.1. Product identifier

Hardener for cds-AGL BaseGrout UW flex

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

Information provided info@cds-polymere.de

by / telephone

1.4. Emergency telephone number

Emergency CONTACT (24-Hour-Number): GBK GmbH +49 (0)6132-84463

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

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

Acute Tox. 4	H302
Skin Corr. 1B	H314
Eye Dam. 1	H318
Skin Sens. 1	H317
Carc. 2	H351
Repr. 2	H361fd
STOT RE 2	H373
Asp. Tox. 1	H304
Aquatic Acute 1	H400
Aquatic Chronic 1	H410

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

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

Hazard pictograms



Signal word

Danger

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Hazard statements

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H351	Suspected of causing cancer.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H304	May be fatal if swallowed and enters airways.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statements

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

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

contains	2-piperazin-1-ylethylamine; Reaction mass of (1-Phenylethyl)phenols and bis-(1-phenylethyl)phenols; amines, coco alkyl; (Z)-octadec-9-enylamine; benzyl alcohol; 2,2,4-Trimethylhexane-1,6-diamine; Urethane Prepolymer; Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol; 4-methylpentan-2-one
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2.3. Other hazards

No special hazards have to be mentioned.

The product contains no PBT substances. The product contains substances meeting the vPvB criteria. See SECTION 3 in this safety data sheet. This product does not contain a substance that has endocrine disrupting properties with respect to human. The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

SECTION 3: Composition/information on ingredients *****3.2. Mixtures****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		

Urethane Prepolymer

Concentration	>= 10	< 25		%
Classification (Regulation (EC) No. 1272/2008)	Acute Tox. 4	H302		

cATpE	oral	500	mg/kg
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(Z)-octadec-9-enylamine

CAS No.	112-90-3
EINECS no.	204-015-5

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Registration no. 01-2119473797-19-XXXX
 Concentration \geq 10 < 20 %
 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

ATE oral 1.200 mg/kg

2-piperazin-1-ylethylamine

CAS No. 140-31-8
 EINECS no. 205-411-0
 Registration no. 01-2119471486-30-XXXX
 Concentration \geq 5 < 10 %
 Classification (Regulation (EC) No. 1272/2008)
 Acute Tox. 3 H311
 Repr. 2 H361
 STOT RE 1 H372
 Skin Corr. 1B H314
 Eye Dam. 1 H318
 Acute Tox. 4 H302
 Skin Sens. 1 H317
 Aquatic Chronic 3 H412

ATE dermal 866 mg/kg

amines, coco alkyl

CAS No. 61788-46-3
 EINECS no. 262-977-1
 Registration no. 01-2119473798-17-XXXX
 Concentration \geq 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

ATE oral 1.300 mg/kg

benzyl alcohol

CAS No. 100-51-6
 EINECS no. 202-859-9
 Registration no. 01-2119492630-38-XXXX
 Concentration \geq 1 < 10 %
 Classification (Regulation (EC) No. 1272/2008)

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Acute Tox. 4	H302
Eye Irrit. 2	H319
Skin Sens. 1B	H317

ATE oral 1.200 mg/kg

2,2,4-Trimethylhexane-1,6-diamine

CAS No. 25513-64-8

EINECS no. 247-063-2

Registration no. 01-2119560598-25-XXXX

Concentration ≥ 1 < 5 %

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

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

ATE oral 910 mg/kg

2,4,6-tris(dimethylaminomethyl)phenol

CAS No. 90-72-2

EINECS no. 202-013-9

Registration no. 01-2119560597-27-XXXX

Concentration ≥ 1 < 5 %

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

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

4-methylpentan-2-one

CAS No. 108-10-1

EINECS no. 203-550-1

Registration no. 01-2119473980-30-XXXX

Concentration ≥ 1 < 5 %

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

Flam. Liq. 2	H225
Eye Irrit. 2	H319
Acute Tox. 4	H332
STOT SE 3	H336
Carc. 2	H351

cATpE inhalative, Dust/Mist 1,5 mg/l

ATE inhalative, Vapors 11 mg/l

Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol

EINECS no. 700-960-7

Registration no. 01-2119555274-38-XXXX

Concentration $\geq 0,1$ < 1 %

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

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

Supplemental information

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

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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. Give a Cortison spray at an early stage.

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. Carbon monoxide (CO); Carbon dioxide (CO₂); Pyrolysis products

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.

Further information on storage conditions

Do not keep at temperatures above 20 °C.

7.3. Specific end use(s)

Read attached instructions before use.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit values

4-methylpentan-2-one

List	MAK(GKV 2003)			
Value	83	mg/m ³	20	ppm(V)
Maximum limit value: 2(I); Skin resorption / sensibilisation: H; Pregnancy group: Y Remarks: DFG, EU, H, Y				

4-methylpentan-2-one

List	IOELV			
Value	83	mg/m ³	20	ppm(V)
Short term exposure limit	208	mg/m ³	50	ppm(V)
Remarks: 2000/39/EC				

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Other information

Abbreviations: E = respirable part, A = alveoli absorbable part

There are not known any further control parameters.

Derived No/Minimal Effect Levels (DNEL/DMEL)

benzyl alcohol

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	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	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-ylethylamine

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	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Acute	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	10,6	mg/m ³

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	0,015	mg/m ³

Type of value	Derived No Effect Level (DNEL)	
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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 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 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

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

Type of value Derived No Effect Level (DNEL)
 Reference group Worker
 Duration of exposure Long term
 Route of exposure inhalative
 Mode of action Systemic effects
 Concentration 1,21 mg/m³

amines, coco alkyl

Type of value Derived No Effect Level (DNEL)
 Reference group Worker
 Duration of exposure Long term
 Route of exposure inhalative
 Mode of action Systemic effects
 Concentration 0,38 mg/m³

Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol

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

2,4,6-tris(dimethylaminomethyl)phenol

Type of value Derived No Effect Level (DNEL)



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Reference group Worker
 Duration of exposure Long term
 Route of exposure inhalative
 Mode of action Systemic effects
 Concentration 0,53 mg/m³

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

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

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

(Z)-octadec-9-enylamine

Type of value Derived No Effect Level (DNEL)
 Reference group Worker
 Duration of exposure Long term
 Route of exposure inhalative
 Mode of action Systemic effects
 Concentration 0,38 mg/m³

4-methylpentan-2-one

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 83 mg/m³

Type of value Derived No Effect Level (DNEL)
 Reference group Worker
 Duration of exposure Acute
 Route of exposure inhalative
 Mode of action Systemic effects
 Concentration 208 mg/m³

Type of value Derived No Effect Level (DNEL)
 Reference group Worker
 Duration of exposure Long term
 Route of exposure inhalative
 Mode of action Local effects
 Concentration 83 mg/l

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Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Acute	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	208	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	11,8	mg/kg/d

Predicted No Effect Concentration (PNEC)

benzyl alcohol

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

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

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

2-piperazin-1-ylethylamine

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

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

Type of value	PNEC	
Type	Water (intermittent release)	
Concentration	0,58	mg/l



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Type of value	PNEC		
Type	Sewage treatment plant (STP)		
Concentration	250	mg/l	
Type of value	PNEC		
Type	Sediment		
Concentration	215	mg/kg	
Type of value	PNEC		
Type	Marine sediment		
Concentration	21,5	mg/kg	
Type of value	PNEC		
Type	Soil		
Concentration	1	mg/kg	

2,2,4-Trimethylhexane-1,6-diamine

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

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

Type of value	PNEC		
Type	Freshwater		
Concentration	0,0115	mg/l	
Type of value	PNEC		
Type	Marine		
Concentration	0,00115	mg/l	

amines, coco alkyl

Type of value	PNEC		
Type	Freshwater		
Concentration	0,00026	mg/l	
Type of value	PNEC		
Type	Marine		
Concentration	0,000026	mg/l	
Type of value	PNEC		
Type	Sewage treatment plant (STP)		
Concentration	0,55	mg/l	
Type of value	PNEC		
Type	Freshwater sediment		
Concentration	0,1794	mg/kg	
Type of value	PNEC		
Type	Marine sediment		
Concentration	0,01794	mg/kg	
Type of value	PNEC		



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Type	Soil		
Concentration		10	mg/kg

Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol

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

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

Type of value	PNEC		
Type	Water (intermittent release)		
Concentration		0,14	mg/l

Type of value	PNEC		
Type	Sewage treatment plant (STP)		
Concentration		2,4	mg/l

Type of value	PNEC		
Type	Soil		
Concentration		212	mg/kg

Type of value	PNEC		
Type	Freshwater sediment		
Concentration		1064	mg/kg

Type of value	PNEC		
Type	Marine sediment		
Concentration		106	mg/kg

2,4,6-tris(dimethylaminomethyl)phenol

Type of value	PNEC		
Type	Water		
Concentration		0,046	mg/l

Type of value	PNEC		
Type	Marine		
Concentration		0,0046	mg/l

Type of value	PNEC		
Type	Water (intermittent release)		
Concentration		0,46	mg/l

Type of value	PNEC		
Type	Sewage treatment plant (STP)		
Concentration		0,2	mg/l

Type of value	PNEC		
Type	Freshwater sediment		
Concentration		0,262	mg/kg

Type of value	PNEC		
Type	Marine sediment		
Concentration		0,026	mg/kg



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Type of value	PNEC		
Type	Soil		
Concentration	0,025		mg/kg

(Z)-octadec-9-enylamine

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

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

Type of value	PNEC		
Type	Sewage treatment plant (STP)		
Concentration	0,55		mg/l

Type of value	PNEC		
Type	Freshwater sediment		
Concentration	0,1794		mg/kg

Type of value	PNEC		
Type	Marine sediment		
Concentration	0,01794		mg/kg

Type of value	PNEC		
Type	Soil		
Concentration	10		mg/kg

4-methylpentan-2-one

Type of value	PNEC		
Type	Freshwater		
Concentration	0,6		mg/l

Type of value	PNEC		
Type	Saltwater		
Concentration	0,06		mg/l

Type of value	PNEC		
Type	Sewage treatment plant (STP)		
Concentration	27,5		mg/l

Type of value	PNEC		
Type	Freshwater sediment		
Concentration	8,27		mg/kg

Type of value	PNEC		
Type	Marine sediment		
Concentration	0,83		mg/kg

Type of value	PNEC		
Type	Soil		
Concentration	1,3		mg/kg

8.2. Exposure controls

General protective and hygiene measures

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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. Short term: filter apparatus, combination filter A-P2; The respiratory protection must comply with the relevant CEN standards.

Hand protection

Chemical resistant gloves

Appropriate Material

nitrile

Material thickness >= 0,3 mm

Breakthrough time >= 480 min

Hand protection must comply with EN 374.

Check leak-tightness/impermeability prior to use.

Eye protection

Safety glasses with side protection shield; Face shield; Eye protection must comply with EN 166.

Body protection

Clothing as usual in the chemical industry. Protective shoes; Personal protective clothing must comply with the relevant CEN standards.

SECTION 9: Physical and chemical properties ***

9.1. Information on basic physical and chemical properties

Physical state	liquid		
Odour	amine-like		
Colour	yellow		
Melting point			
Remarks	not determined		
Freezing point			
Remarks	not determined		
Boiling point or initial boiling point and boiling range			
Value	> 100		°C
Pressure	1013	hPa	
Flammability			
evaluation	not determined		
Upper and lower explosive limits			
Remarks	not determined		
Flash point			
Value	> 65		°C
Ignition temperature			
Remarks	not determined		
Decomposition temperature			
Remarks	not determined		
pH value			
Value	11	to	12
Concentration/H ₂ O	1	%	
Viscosity			
Remarks	not determined		

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Solubility(ies)

Remarks not determined

Partition coefficient n-octanol/water (log value)

Remarks not determined

Vapour pressure

Value	<	1		hPa
Temperature		50	°C	

Density and/or relative density

Value		0,95		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 immiscible

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

Reactions with strong oxidising agents. Reactions with strong acids. Reactions with strong alkalis.

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	1.644,69	mg/kg
-----	----------	-------

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06
 Method calculated value (Regulation (EC) No. 1272/2008)
 Remarks The classification criteria are met.

Acute oral toxicity (Components)

benzyl alcohol

ATE 1200 mg/kg

2-piperazin-1-ylethylamine

Species rat
 LD50 2140 mg/kg

2,2,4-Trimethylhexane-1,6-diamine

Species rat
 LD50 910 mg/kg

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

Species rat
 LD50 > 2000 mg/kg
 Method OECD 423

amines, coco alkyl

Species rat
 LD50 1300 mg/kg
 Method OECD 401

Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol

Species rat
 LD50 > 2000 mg/kg
 Method OECD 423

2,4,6-tris(dimethylaminomethyl)phenol

Species rat
 LD50 2169 mg/kg
 Remarks The classification criteria are met.

(Z)-octadec-9-enylamine

Species rat
 LD50 1200 to 2000 mg/kg
 Method OECD 401

4-methylpentan-2-one

Species rat
 LD50 2080 mg/kg
 Method OECD 401

Acute dermal toxicity

ATE 8.836,73 mg/kg
 47

Method calculated value (Regulation (EC) No. 1272/2008)
 Remarks Based on available data, the classification criteria are not met.

Acute dermal toxicity (Components)

benzyl alcohol

Species rabbit
 LD50 > 2000 mg/kg

2-piperazin-1-ylethylamine

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

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Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol

Species	rat	
LD50	> 2000	mg/kg
Method	OECD 402	

4-methylpentan-2-one

Species	rat	
LD50	> 2000	mg/kg

Acute inhalational toxicity

ATE	> 100	mg/l
Administration/Form	Vapors	
Method	calculated value (Regulation (EC) No. 1272/2008)	
ATE	> 20	mg/l
Administration/Form	Dust/Mist	
Method	calculated value (Regulation (EC) No. 1272/2008)	
Remarks	Based on available data, the classification criteria are not met.	

Acute inhalative toxicity (Components)**benzyl alcohol**

Species	rat	
LC50	> 4,178	mg/l
Duration of exposure	4	h
Administration/Form	Dust/Mist	
Method	OECD 403	
Remarks	Based on available data, the classification criteria are not met.	

benzyl alcohol

Remarks	Expert judgement
---------	------------------

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	
Remarks	Saturation Concentration: No demonstrable toxic effect	

Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol

Species	rat	
LC0	4,9	mg/l
Duration of exposure	4	h
Administration/Form	Dust/Mist	
Method	OECD 403	
Remarks	Saturation Concentration: No demonstrable toxic effect	

4-methylpentan-2-one

ATE	11	mg/l
Administration/Form	Vapors	

Skin corrosion/irritation

evaluation	corrosive
Remarks	The classification criteria are met.

Skin corrosion/irritation (Components)**amines, coco alkyl**

Species	rabbit
evaluation	corrosive
Method	OECD 404

(Z)-octadec-9-enylamine

evaluation	corrosive
------------	-----------

2-piperazin-1-ylethylamine

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evaluation corrosive

2,2,4-Trimethylhexane-1,6-diamine

evaluation strongly corrosive

Method OECD 404

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

Species rabbit

evaluation irritant

Method OECD 404

Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol

Species rabbit

evaluation irritant

Method OECD 404

2,4,6-tris(dimethylaminomethyl)phenol

evaluation irritant

Serious eye damage/irritation

evaluation corrosive

Remarks The classification criteria are met.

Serious eye damage/irritation (Components)

benzyl alcohol

Species rabbit

evaluation irritant

Method OECD 405

(Z)-octadec-9-enylamine

evaluation corrosive

2-piperazin-1-ylethylamine

evaluation corrosive

2,2,4-Trimethylhexane-1,6-diamine

evaluation corrosive

Method OECD 405

amines, coco alkyl

evaluation corrosive

2,4,6-tris(dimethylaminomethyl)phenol

evaluation irritant

4-methylpentan-2-one

Species rabbit

evaluation irritant

Method OECD 405

Sensitization

evaluation May cause sensitization by skin contact.

Remarks The classification criteria are met.

Sensitization (Components)

benzyl alcohol

evaluation sensitizing

2-piperazin-1-ylethylamine

Species guinea pig

evaluation sensitizing

Method OECD 406

2,2,4-Trimethylhexane-1,6-diamine

Species guinea pig

evaluation strongly sensitizing

Method OECD 406

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

Species	rabbit
evaluation	strongly sensitizing
Method	OECD 429

Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol

evaluation	sensitizing
------------	-------------

Subacute, subchronic, chronic toxicity

Remarks	not determined
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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.

Reproduction toxicity (Components)**2-piperazin-1-ylethylamine**

Route of exposure	oral
Dose	150 mg/kg/d
evaluation	Suspected of damaging fertility or the unborn child.

Carcinogenicity

evaluation	Suspected of causing cancer.
Remarks	The classification criteria are met.

Carcinogenicity (Components)**4-methylpentan-2-one**

evaluation	Definitely confirmed as causing cancer in the experiment on test animals.
------------	---

Specific Target Organ Toxicity (STOT)**Single exposure**

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

Repeated exposure

Remarks	The classification criteria are met.
evaluation	May cause damage to organs through prolonged or repeated exposure

Specific Target Organ Toxicity (STOT) (Components)**amines, coco alkyl**

evaluation	May cause respiratory irritation.
------------	-----------------------------------

amines, coco alkyl

evaluation	May cause damage to organs through prolonged or repeated exposure
------------	---

(Z)-octadec-9-enylamine

evaluation	May cause respiratory irritation.
------------	-----------------------------------

(Z)-octadec-9-enylamine

evaluation	May cause damage to organs through prolonged or repeated exposure
------------	---

2-piperazin-1-ylethylamine

evaluation	Causes damage to organs through prolonged or repeated exposure
------------	--

4-methylpentan-2-one

evaluation	May cause drowsiness or dizziness.
------------	------------------------------------

Aspiration hazard

The classification criteria are met.
Harmful: may cause lung damage if swallowed.

Aspiration hazard (Components)**(Z)-octadec-9-enylamine**

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Harmful: may cause lung damage if swallowed.

11.2 Information on other hazards

Endocrine disrupting properties with respect to humans

The product does not contain a substance that has endocrine disrupting properties with respect to humans.

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)

benzyl alcohol

Species	Fathead minnow (<i>Pimephales promelas</i>)		
LC50	460		mg/l
Duration of exposure	96	h	

benzyl alcohol

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

2-piperazin-1-ylethylamine

Species	Fathead minnow (<i>Pimephales promelas</i>)		
LC50	2190		mg/l
Duration of exposure	96	h	

2,2,4-Trimethylhexane-1,6-diamine

Species	golden orfe (<i>Leuciscus idus</i>)		
LC50	174		mg/l
Duration of exposure	48	h	

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

Species	zebra fish (<i>Brachydanio rerio</i>)		
LL50	14,8		mg/l
Duration of exposure	96	h	
Method	OECD 203		

amines, coco alkyl

Species	Fathead minnow (<i>Pimephales promelas</i>)		
LC50	> 0,01	to	0,1 mg/l
Method	OECD 203		

2,4,6-tris(dimethylaminomethyl)phenol

Species	carp (<i>Cyprinus carpio</i>)		
LC50	175		mg/l
Duration of exposure	96	h	
Method	OECD 203		

(Z)-octadec-9-enylamine

Species	Fathead minnow (<i>Pimephales promelas</i>)		
LC50	> 0,01	to	0,1 mg/l
Duration of exposure	96	h	
Method	OECD 203		

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Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol

Species	zebra fish (Brachydanio rerio)		
LL50	25,8		mg/l
Duration of exposure	96	h	
Method	OECD 203		

4-methylpentan-2-one

Species	zebra fish (Brachydanio rerio)		
LC50	> 179		mg/l
Duration of exposure	96	h	
Method	OECD 203		

Daphnia toxicity (Components)**benzyl alcohol**

Species	Daphnia magna		
EC50	230		mg/l
Duration of exposure	48	h	
Method	OECD 202		

benzyl alcohol

Species	Daphnia magna		
NOEC	51		mg/l
Duration of exposure	21	d	

2-piperazin-1-ylethylamine

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

2,2,4-Trimethylhexane-1,6-diamine

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

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

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

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

NOEC	0,115		mg/l
Duration of exposure	21	d	
Method	OECD 211		
Remarks	Test conducted with a similar formulation.		

amines, coco alkyl

Species	Daphnia magna		
EC50	> 0,01	to 0,1	mg/l
Duration of exposure	48	h	
Method	OECD 202		

amines, coco alkyl

Species	Daphnia magna		
NOEC	> 0,01	to 0,1	
Duration of exposure	21	Days	
Method	OECD 211		

Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol

Species	Daphnia magna		
EL50	14	to 51	mg/l
Duration of exposure	48	h	
Method	OECD 202		

(Z)-octadec-9-enylamine

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Species	Daphnia magna				
EC50	> 0,01	to	0,1	mg/l	
Duration of exposure	48	h			
Method	OECD 202				

2,4,6-tris(dimethylaminomethyl)phenol

Species	Daphnia magna				
EC50	718			mg/l	
Duration of exposure	96	h			

4-methylpentan-2-one

Species	Daphnia magna				
EC50	> 200			mg/l	
Duration of exposure	48	h			
Method	OECD 202				

4-methylpentan-2-one

Species	Daphnia magna				
NOEC	30			mg/l	
Duration of exposure	21	d			
Method	OECD 211				

Algae toxicity (Components)

benzyl alcohol

Species	Pseudokirchneriella subcapitata				
IC50	770			mg/l	
Duration of exposure	72	h			
Method	OECD 201				

2-piperazin-1-ylethylamine

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

2,2,4-Trimethylhexane-1,6-diamine

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

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

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

amines, coco alkyl

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

Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol

Species	Scenedesmus subspicatus				
EL50	15			mg/l	
Duration of exposure	72	h			
Method	OECD 201				

2,4,6-tris(dimethylaminomethyl)phenol

Species	Desmodesmus subspicatus				
EC50	84			mg/l	
Duration of exposure	72	h			
Method	OECD 201				

2,4,6-tris(dimethylaminomethyl)phenol

Species	Desmodesmus subspicatus				
NOEC	6,25			mg/l	

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Duration of exposure 72 h
Method OECD 201

(Z)-octadec-9-enylamine

Species *Desmodesmus subspicatus*
EC50 > 0,01 to 0,1 mg/l
Duration of exposure 72 h
Method OECD 201

4-methylpentan-2-one

Species Algae
EC50 > 146 mg/l
Duration of exposure 7 d

4-methylpentan-2-one

Species Algae
NOEC 146 mg/l
Duration of exposure 7 Days

Bacteria toxicity (Components)

benzyl alcohol

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

benzyl alcohol

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

2,2,4-Trimethylhexane-1,6-diamine

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

2,4,6-tris(dimethylaminomethyl)phenol

Species activated sludge
NOEC 2 mg/l
Duration of exposure 28 h

4-methylpentan-2-one

Species *Pseudomonas putida*
EC50 275 mg/l
Duration of exposure 16 h
Method DIN 38412 / Part 8

12.2. Persistence and degradability

General information

not determined

Biodegradability (Components)

4-methylpentan-2-one

Value 83 %
Duration of test 28 d
evaluation Readily biodegradable (according to OECD criteria)
Method OECD 301F

benzyl alcohol

Value 95 %
Duration of test 21 d
evaluation Readily biodegradable (according to OECD criteria)
Method OECD 301A / ISO 7827

(Z)-octadec-9-enylamine

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evaluation Readily biodegradable (according to OECD criteria)
Method OECD 301 D

2-piperazin-1-ylethylamine

evaluation not readily degradable

2,2,4-Trimethylhexane-1,6-diamine

Remarks The product is not readily biodegradable according to OECD criteria but is inherently biodegradable.

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

evaluation not readily degradable

amines, coco alkyl

Value > 60 %

Duration of test 28 d

evaluation Readily biodegradable (according to OECD criteria)

Method OECD 301 D

Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol

evaluation not readily degradable

2,4,6-tris(dimethylaminomethyl)phenol

Value 4 %

Duration of test 28 d

evaluation not readily degradable

Method OECD 301 D

12.3. Bioaccumulative potential

General information

not determined

Partition coefficient n-octanol/water (log value)

Remarks not determined

Octanol/water partition coefficient (log Pow) (Components)

(Z)-octadec-9-enylamine

log Pow 3,7

4-methylpentan-2-one

pOW 79

log Pow 1,9

benzyl alcohol

log Pow 1

Temperature 20 °C

2-piperazin-1-ylethylamine

log Pow -1.48

2,2,4-Trimethylhexane-1,6-diamine

log Pow -0,3

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

log Pow 3,03

amines, coco alkyl

log Pow 4,33

Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol

log Pow 6,3

2,4,6-tris(dimethylaminomethyl)phenol

log Pow -0,66

Bioconcentration factor (BCF) (Components)

(Z)-octadec-9-enylamine

BCF > 500

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benzyl alcohol

BCF 1,37

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

BCF 69 to 190

amines, coco alkyl

BCF 173

Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol

BCF 3000

12.4. Mobility in soil**General information**

not determined

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

not determined

Results of PBT and vPvB assessment

The product contains no PBT substances

The product contains vPvB-substances.

Results of PBT and vPvB assessment (Ingredients)**Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol**

The substance meets vPvB-criteria.

12.6 Endocrine disrupting properties**General information**

not determined

Endocrine disrupting properties with respect to the environment

The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

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

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	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-ylethylamine)	POLYAMINES, LIQUID, CORROSIVE, N.O.S. ((Z)-octadec-9-enylamine, 2-piperazin-1-ylethylamine)	POLYAMINES, LIQUID, CORROSIVE, N.O.S. ((Z)-octadec-9-enylamine, 2-piperazin-1-ylethylamine)
14.3. Transport hazard class(es)	8	8	8
Label			
14.4. Packing group	II	II	II
Limited Quantity	1 I	1 I	
Transport category	2		
14.5. Environmental hazards	 ENVIRONMENTALLY HAZARDOUS	Marine Pollutant  ENVIRONMENTALLY HAZARDOUS	 ENVIRONMENTALLY HAZARDOUS
Tunnel restriction code	E		

Information for all modes of transport

14.6. Special precautions for user

The relevant transport regulations have to be considered.

Other information

14.7 Maritime transport in bulk according to IMO instruments

no data

SECTION 15: Regulatory information ***

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

Major-accident categories acc. 2012/18/EU

Category	E1	Hazardous to the Aquatic Environment	100000	kg	200000	kg
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VOC

VOC (EU)	1,11	%	10,5	g/l
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Other regulations, restrictions and prohibition regulations

Handling epoxy resin systems safely (published by PlasticsEurope) www.plasticseurope.org

This product meets the requirements of Regulation (EC) No. 1935/2004 on the limitation of VOC content. EU2004/42/IIA(j)500(2010): <500g/l VOC

Restriction according to annex XVII to regulation (EU) No 1907/2006

Conditions of restriction for the entries Annex XVII REACH should be considered.

GIS-Code

GIS-Code RE 90

Other information

The product contains substances according to: Candidate List for inclusion in Annex XIV of Regulation (EC) No. 1907/2006 (REACH).

15.2. Chemical safety assessment

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

SECTION 16: Other information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***

Key literature references and sources for data

SDS
ECHA

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

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

Acute Tox. 4	H302	Calculation method
Skin Corr. 1B	H314	Calculation method
Eye Dam. 1	H318	Calculation method
Skin Sens. 1	H317	Calculation method
Carc. 2	H351	Calculation method
Repr. 2	H361fd	Calculation method
STOT RE 2	H373	Calculation method
Asp. Tox. 1	H304	Calculation method
Aquatic Acute 1	H400	Calculation method
Aquatic Chronic 1	H410	Calculation method

Hazard statements listed in Chapter 2/3

H225	Highly flammable liquid and vapour.
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.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
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.

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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
Carc. 2	Carcinogenicity, Category 2
Eye Dam. 1	Serious eye damage, Category 1
Eye Irrit. 2	Eye irritation, Category 2
Flam. Liq. 2	Flammable liquid, Category 2
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
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

Abbreviations

ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route

RID: Règlement concernant le transport international ferroviaire de marchandises dangereuses

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

CAS: Chemical Abstracts Service

EAK: Europäischer Abfallkatalog

VOC: Volatile Organic Compound

MAK: Maximale Arbeitsplatz-Konzentration

AGW: Arbeitsplatzgrenzwert

BGW: Biologischer Grenzwert

NOEC: No observable effect concentration

LD: Lethal dose

LC: Lethal concentration

PBT: Persistent, Bioaccumulative and Toxic

vPvB: Very persistent and very bioaccumulative

SVHC: Substances of very high concern

DNEL: Derived no effect level

PNEC: Predicted no effect concentration

OECD: Organisation for Economic Co-operation and Development

REACH: Registration, Evaluation, Autohorisation and Restriction of Chemicals

TRGS: Technische Regeln für Gefahrstoffe

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.