

Trade name: Härter FH für cds-Grundierung farblos

Version: 3 / GB

Date revised: 19.08.2025

Substance number: 11882

Replaces Version: 2 / GB

Print date: 19.08.2025

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

1.1. Product identifier

Härter FH für cds-Grundierung farblos

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
Repr. 2	H361f
Aquatic Chronic 2	H411

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

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.

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H361f Suspected of damaging fertility.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

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

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

contains 3-aminomethyl-3,5,5-trimethylcyclohexylamine; 3-aminopropyltriethoxysilane; 4-tert-Butylphenol; m-Phenylenebis(methylamine); 2,2,4-Trimethylhexane-1,6-diamine; salicylic acid; Cyclohexanemethanamine, 5-amino-1,3,3-trimethyl-, reaction products with bisphenol A diglycidyl ether homopolymer; Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol; benzyl alcohol; Paraformaldehyde, polymeric reaction products with 4-tert-butylphenol, m-phenylenebis(methylamine) and trimethylhexane-1,6-diamine

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 contains substances that have endocrine disrupting properties with respect to non-target organisms. See SECTION 3 of this safety data sheet.

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

CAS No.	100-51-6				
EINECS no.	202-859-9				
Registration no.	01-2119492630-38-XXXX				
Concentration	>= 10	<	25		%
Classification (Regulation (EC) No. 1272/2008)	Acute Tox. 4		H302		
	Eye Irrit. 2		H319		
	Skin Sens. 1B		H317		

ATE	oral	1.200	mg/kg
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4-tert-Butylphenol

CAS No.	98-54-4				
EINECS no.	202-679-0				
Registration no.	01-2119489419-21-XXXX				
Concentration	>= 10	<	25		%
Classification (Regulation (EC) No. 1272/2008)	Skin Irrit. 2		H315		
	Eye Dam. 1		H318		
	Repr. 2		H361f		
	Aquatic Chronic 1		H410		

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

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Supplemental information

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

3-aminomethyl-3,5,5-trimethylcyclohexylamine

CAS No. 2855-13-2
 EINECS no. 220-666-8
 Registration no. 01-2119514687-32-XXXX
 Concentration \geq 10 < 25 %
 Classification (Regulation (EC) No. 1272/2008)
 Acute Tox. 4 H302
 Skin Corr. 1B H314
 Eye Dam. 1 H318
 Skin Sens. 1A H317

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

Skin Sens. 1A H317 \geq 0,001 %
 ATE oral 1.030 mg/kg

Cyclohexanemethanamine, 5-amino-1,3,3-trimethyl-, reaction products with bisphenol A diglycidyl ether homopolymer

CAS No. 68609-08-5
 EINECS no. 614-657-1
 Registration no. REACH ANNEX V NO. 4
 Concentration \geq 10 < 25 %
 Classification (Regulation (EC) No. 1272/2008)
 Skin Corr. 1B H314
 Eye Dam. 1 H318

m-Phenylenebis(methylamine)

CAS No. 1477-55-0
 EINECS no. 216-032-5
 Registration no. 01-2119480150-50-XXXX
 Concentration \geq 10 < 25 %
 Classification (Regulation (EC) No. 1272/2008)
 Acute Tox. 4 H302
 Aquatic Chronic 3 H412
 Skin Corr. 1B H314
 Acute Tox. 4 H332
 Eye Dam. 1 H318
 Skin Sens. 1B H317

ATE oral 980 mg/kg
 ATE inhalative, Dust/Mist 1,34 mg/l
 cATpE inhalative, Vapors 11 mg/l

Paraformaldehyde, polymeric reaction products with 4-tert-butylphenol, m-phenylenbis(methylamine) and trimethylhexane-1,6-diamine

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

Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol

EINECS no. 700-960-7
 Registration no. 01-2119555274-38-XXXX

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Concentration	>=	1	<	10	%
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).

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

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

ATE oral 910 mg/kg

3-aminopropyltriethoxysilane

CAS No. 919-30-2

EINECS no. 213-048-4

Registration no. 01-2119480479-24-XXXX

Concentration	>=	1	<	5	%
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Classification (Regulation (EC) No. 1272/2008)

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

ATE oral 1.490 mg/kg

salicylic acid

CAS No. 69-72-7

EINECS no. 200-712-3

Registration no. 01-2119486984-17-XXXX

Concentration	>=	1	<	2,5	%
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Classification (Regulation (EC) No. 1272/2008)

		Eye Dam. 1		H318	
		Acute Tox. 4		H302	
		Repr. 2		H361d	

ATE oral 891 mg/kg

Candidate List for inclusion in Annex XIV of Regulation (EC) No. 1907/2006 (REACH).

Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol; 4-tert-Butylphenol

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.

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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

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.

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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

m-Phenylenebis(methylamine)

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

m-Phenylenebis(methylamine)

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

4-tert-Butylphenol

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

3-aminomethyl-3,5,5-trimethylcyclohexylamine

List	MAK(GKV 2003)
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Biological limit values

4-tert-Butylphenol

List	BGW (TRGS 903)
Value	2 mg/l
Parameter	4-tert-Butylphenol
Testing material	Urine (U)

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Test date End of exposure or end of shift (b)

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

m-Phenylenebis(methylamine)

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Route of exposure	dermal	
Concentration	0,33	mg/kg

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

3-aminomethyl-3,5,5-trimethylcyclohexylamine

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	0,073	mg/m ³

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	

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Duration of exposure	Short term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	20,1	mg/m ³

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

salicylic acid

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	mg/kg/d

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	5	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	5	mg/m ³

4-tert-Butylphenol

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

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

3-aminopropyltriethoxysilane

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	14	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	2	mg/kg

Predicted No Effect Concentration (PNEC)

benzyl alcohol

Type of value	PNEC	
Type	Water	
Concentration	1	mg/l

Type of value	PNEC	
Type	Water (intermittent release)	
Concentration	2,31	mg/l

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

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

Type of value	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

m-Phenylenebis(methylamine)

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

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

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

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

Type of value	PNEC	
Type	Marine	

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Concentration 0,01 mg/l

3-aminomethyl-3,5,5-trimethylcyclohexylamine

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

Type of value PNEC
 Type Marine
 Concentration 0,006 mg/l

Type of value PNEC
 Type Water (intermittent release)
 Concentration 0,23 mg/l

Type of value PNEC
 Type Sewage treatment plant (STP)
 Concentration 3,18 mg/l

Type of value PNEC
 Type Freshwater sediment
 Concentration 5,784 mg/kg

Type of value PNEC
 Type Marine sediment
 Concentration 0,578 mg/kg

Type of value PNEC
 Type Soil
 Concentration 1,121 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

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Type	Marine sediment		
Concentration	106		mg/kg
salicylic acid			
Type of value	PNEC		
Type	Freshwater		
Concentration	0,2		mg/l
Type of value	PNEC		
Type	Marine		
Concentration	0,02		mg/l
Type of value	PNEC		
Type	Water (intermittent release)		
Concentration	1		mg/l
Type of value	PNEC		
Type	Sewage treatment plant (STP)		
Concentration	162		mg/l
Type of value	PNEC		
Type	Freshwater sediment		
Concentration	1,42		mg/kg
Type of value	PNEC		
Type	Marine sediment		
Concentration	0,142		mg/kg
Type of value	PNEC		
Type	Soil		
Concentration	0,166		mg/kg
4-tert-Butylphenol			
Type of value	PNEC		
Type	Freshwater		
Concentration	0,01		mg/l
Type of value	PNEC		
Type	Marine		
Concentration	0,001		mg/l
3-aminopropyltriethoxysilane			
Type of value	PNEC		
Type	Saltwater		
Concentration	0,05		mg/l
Type of value	PNEC		
Type	Marine sediment		
Concentration	0,18		mg/kg
Type of value	PNEC		
Type	Soil		
Concentration	0,069		mg/kg
Type of value	PNEC		
Type	Sewage treatment plant (STP)		
Concentration	0,81	1,3	mg/l

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Type of value	PNEC		
Type	Freshwater		
Concentration	0,5		mg/l

Type of value	PNEC		
Type	Freshwater sediment		
Concentration	1,8		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. 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 \geq 0,3 mm
 Breakthrough time \geq 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	$>$ 200		°C
Pressure	1013	hPa	
Flammability			
evaluation	not determined		
Upper and lower explosive limits			
Remarks	not determined		
Flash point			

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Value > 100 °C

Ignition temperature

Remarks not determined

Decomposition temperature

Remarks not determined

pH value

Value 11 to 12

Concentration/H₂O 1 %

Temperature 20 °C

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 densityValue 1 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

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.

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10.5. Incompatible materials

Reactions with strong oxidising agents. Reactions with strong acids. Reactions with strong alkalies.

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	1.952,19 61	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)	
Remarks	The classification criteria are met.	

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

ATE	1200	mg/kg
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m-Phenylenebis(methylamine)

Species	mouse	
LD50	1180	mg/kg

m-Phenylenebis(methylamine)

Species	rat	
LD50	980	mg/kg

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

Species	rat	
LD50	910	mg/kg

3-aminomethyl-3,5,5-trimethylcyclohexylamine

Species	rat	
LD50	1030	mg/kg

3-aminomethyl-3,5,5-trimethylcyclohexylamine

ATE	1030	mg/kg
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Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol

Species	rat	
LD50	> 2000	mg/kg
Method	OECD 423	

salicylic acid

Species	rat	
LD50	891	mg/kg

4-tert-Butylphenol

Species	rat	
LD50	> 2000	mg/kg

3-aminopropyltriethoxysilane

Species	rat	
LD50	1490	mg/kg
Method	EPA	

3-aminopropyltriethoxysilane

Species	rat	
NOAEL	200	mg/kg
Duration of exposure	90	d

Acute dermal toxicity

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

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

Species	rabbit		
LD50	>	2000	mg/kg

m-Phenylenebis(methylamine)

Species	rabbit		
LD50		3100	mg/kg

m-Phenylenebis(methylamine)

Species	rat		
LD50	>	3100	mg/kg

3-aminomethyl-3,5,5-trimethylcyclohexylamine

Species	Rats (male/female)		
LD50	>	2000	mg/kg

Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol

Species	rat		
LD50	>	2000	mg/kg
Method	OECD 402		

salicylic acid

Species	rat		
LD50	>	2000	mg/kg

4-tert-Butylphenol

Species	rabbit		
LD50	>	2000	mg/kg

3-aminopropyltriethoxysilane

Species	rabbit		
LD50	>	2000	mg/kg
Method	EPA		

Acute inhalational toxicity

ATE	85,4303	mg/l
Administration/Form	Vapors	
Method	calculated value (Regulation (EC) No. 1272/2008)	
ATE	10,407	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
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m-Phenylenebis(methylamine)

Species	rat		
LC50		1,34	mg/l
Duration of exposure	4	h	
Administration/Form	Dust/Mist		

3-aminomethyl-3,5,5-trimethylcyclohexylamine

Species	rat		
LC50	>	5,01	mg/l

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Duration of exposure 4 h
Administration/Form Dust/Mist

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-tert-Butylphenol

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

3-aminopropyltriethoxysilane

Species rat
LC50 > 20 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)**3-aminomethyl-3,5,5-trimethylcyclohexylamine**

evaluation strongly corrosive

Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol

Species rabbit
evaluation irritant
Method OECD 404

Serious eye damage/irritation

evaluation corrosive
Remarks The classification criteria are met.

Serious eye damage/irritation (Components)**3-aminomethyl-3,5,5-trimethylcyclohexylamine**

evaluation corrosive

benzyl alcohol

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

Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol

evaluation sensitizing

Subacute, subchronic, chronic toxicity

Remarks not determined

Mutagenicity

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

Reproductive toxicity

evaluation Suspected of damaging fertility.

Remarks The classification criteria are met.

Carcinogenicity

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

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

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

Repeated exposure

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

Aspiration hazard

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

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	

m-Phenylenebis(methylamine)

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

m-Phenylenebis(methylamine)

Species	Oryzias latipes		
LC50	87,6		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	

3-aminomethyl-3,5,5-trimethylcyclohexylamine

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Species	golden orfe (Leuciscus idus)		
LC50	110		mg/l
Duration of exposure	96	h	
Method	OECD 203		

salicylic acid

Species	Fathead minnow (Pimephales promelas)		
LC50	1380		mg/l
Duration of exposure	96	h	

4-tert-Butylphenol

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

4-tert-Butylphenol

Species	Fathead minnow (Pimephales promelas)		
LC50	5,1		mg/l
Duration of exposure	96	h	

4-tert-Butylphenol

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

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		

3-aminopropyltriethoxysilane

Species	Zebrabaerbling		
LC0	> 934		mg/l

Daphnia toxicity (Components)**benzyl alcohol**

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

m-Phenylenebis(methylamine)

Species	Daphnia magna		
EC50	15,2		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	

3-aminomethyl-3,5,5-trimethylcyclohexylamine

Species	Daphnia magna		
EC50	23		mg/l
Duration of exposure	48	h	
Method	OECD 202		

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		

salicylic acid

Species	Daphnia magna		
EC50	870		mg/l

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Duration of exposure 48 h

4-tert-Butylphenol

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

3-aminopropyltriethoxysilane

Species Daphnia magna
 EC50 331 mg/l
 Duration of exposure 48 h

Algae toxicity (Components)**benzyl alcohol**

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

m-Phenylenebis(methylamine)

Species Pseudokirchneriella subcapitata
 EC50 33,3 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

3-aminomethyl-3,5,5-trimethylcyclohexylamine

Species Scenedesmus subspicatus
 EC50 37 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

salicylic acid

Species Desmodesmus subspicatus
 EC50 > 100 mg/l
 Duration of exposure 72 h

4-tert-Butylphenol

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

4-tert-Butylphenol

Species Pseudokirchneriella subcapitata
 EC50 14 mg/l
 Duration of exposure 72 h

3-aminopropyltriethoxysilane

Species Desmodesmus subspicatus
 EC50 > 1000 mg/l
 Duration of exposure 72 h
 Method OECD 201

3-aminopropyltriethoxysilane

Species Desmodesmus subspicatus
 NOEC 1,3 mg/l
 Duration of exposure 72 h
 Method OECD 201

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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

m-Phenylenebis(methylamine)

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

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

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

3-aminomethyl-3,5,5-trimethylcyclohexylamine

Species	Pseudomonas putida	
EC10	1120	mg/l
Duration of exposure	16	h

4-tert-Butylphenol

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

3-aminopropyltriethoxysilane

Species	Pseudomonas putida	
EC10	13	mg/l
Duration of exposure	5,75	h

12.2. Persistence and degradability**General information**

not determined

Biodegradability (Components)**benzyl alcohol**

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

Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol

evaluation not readily degradable

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)**3-aminomethyl-3,5,5-trimethylcyclohexylamine**

log Pow 0,79

3-aminopropyltriethoxysilane

log Pow 1,7

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benzyl alcohol

log Pow	1	
Temperature	20	°C

Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol

log Pow	6,3
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Bioconcentration factor (BCF) (Components)**benzyl alcohol**

BCF	1,37
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Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol

BCF	3000
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12.4. Mobility in soil**General information**

not determined

Mobility in soil (Components)**3-aminomethyl-3,5,5-trimethylcyclohexylamine**

Moderately mobile in soils

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 contains substances that have endocrine disrupting properties with respect to non-target organisms.

Endocrine disrupting properties with respect to the environment (Components)**4-tert-Butylphenol**

This substance 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.

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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
14.1. UN number or ID number	2735	2735	2735
14.2. UN proper shipping name	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (m-Phenylenebis(methylamine), 4-tert-Butylphenol)	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (m-Phenylenebis(methylamine), 4-tert-Butylphenol)	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (m-Phenylenebis(methylamine), 4-tert-Butylphenol)
14.3. Transport hazard class(es)	8	8	8
Label			
14.4. Packing group	II	II	II
Limited Quantity	11	11	
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**

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Major-accident categories acc. 2012/18/EU

Category	E2	Hazardous to the Aquatic Environment	200000	kg	500000	kg
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VOC

VOC (EU)	0	%	0	g/l
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Other regulations, restrictions and prohibition regulationsHandling 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.

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: ***

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
Repr. 2	H361f	Calculation method
Aquatic Chronic 2	H411	Calculation method

Hazard statements listed in Chapter 2/3

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H361d	Suspected of damaging the unborn child.
H361f	Suspected of damaging fertility.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

CLP categories listed in Chapter 2/3

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

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Skin Irrit. 2
Skin Sens. 1
Skin Sens. 1A
Skin Sens. 1B

Skin irritation, Category 2
Skin sensitization, Category 1
Skin sensitization, Category 1A
Skin sensitization, Category 1B

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.