

Trade name: Härter S für cds-Grundierung farblos

Version: 3 / GB

Date revised: 19.08.2025

Substance number: 11878

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 S 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 &amp; 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)

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**

H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H361f	Suspected of damaging fertility.
H411	Toxic to aquatic life with long lasting effects.

Trade name: Härter S für cds-Grundierung farblos

Version: 3 / GB

Date revised: 19.08.2025

Substance number: 11878

Replaces Version: 2 / GB

Print date: 19.08.2025

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

CAS No.	2855-13-2
EINECS no.	220-666-8
Registration no.	01-2119514687-32-XXXX
Concentration	>= 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	>= 0,001 %
ATE	oral	1.030	mg/kg	

Trade name: Härter S für cds-Grundierung farblos

Version: 3 / GB

Date revised: 19.08.2025

Substance number: 11878

Replaces Version: 2 / GB

Print date: 19.08.2025

**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

**4-tert-Butylphenol**

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

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

## Supplemental information

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

**Polyoxypropylenediamine**

CAS No. 9046-10-0  
 EINECS no. 618-561-0  
 Registration no. 01-2119557899-12-XXXX  
 Concentration  $\geq$  10 < 25 %  
 Classification (Regulation (EC) No. 1272/2008)  
 Skin Corr. 1C H314  
 Eye Dam. 1 H318  
 Aquatic Chronic 3 H412

**m-Phenylenebis(methylamine)**

CAS No. 1477-55-0  
 EINECS no. 216-032-5  
 Registration no. 01-2119480150-50-XXXX  
 Concentration  $\geq$  1 < 10 %  
 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

Trade name: Härter S für cds-Grundierung farblos

Version: 3 / GB

Date revised: 19.08.2025

Substance number: 11878

Replaces Version: 2 / GB

Print date: 19.08.2025

Concentration	>=	1	<	10	%
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				
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).

**3-aminopropyltriethoxysilane**

CAS No.	919-30-2				
EINECS no.	213-048-4				
Registration no.	01-2119480479-24-XXXX				
Concentration	>=	1	<	5	%
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
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**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)					
		Skin Corr. 1A		H314	
		Acute Tox. 4		H302	
		Skin Sens. 1A		H317	
		Eye Dam. 1		H318	

ATE	oral	910	mg/kg
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**salicylic acid**

CAS No.	69-72-7				
EINECS no.	200-712-3				
Registration no.	01-2119486984-17-XXXX				
Concentration	>=	1	<	2,5	%
Classification (Regulation (EC) No. 1272/2008)					
		Eye Dam. 1		H318	
		Acute Tox. 4		H302	
		Repr. 2		H361d	

ATE	oral	891	mg/kg
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**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

Trade name: Härter S für cds-Grundierung farblos

Version: 3 / GB

Date revised: 19.08.2025

Substance number: 11878

Replaces Version: 2 / GB

Print date: 19.08.2025

## **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 (CO<sub>2</sub>); 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**

Trade name: Härter S für cds-Grundierung farblos

Version: 3 / GB

Date revised: 19.08.2025

Substance number: 11878

Replaces Version: 2 / GB

Print date: 19.08.2025

### 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

##### m-Phenylenebis(methylamine)

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

##### 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 <sup>3</sup>	0,08 ppm(V)

Trade name: Härter S für cds-Grundierung farblos

Version: 3 / GB

Date revised: 19.08.2025

Substance number: 11878

Replaces Version: 2 / GB

Print date: 19.08.2025

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

List MAK(GKV 2003)

**Biological limit values****4-tert-Butylphenol**

List BGW (TRGS 903)  
 Value 2 mg/l  
 Parameter 4-tert-Butylphenol  
 Testing material Urine (U)  
 Test date End of exposure or end of shift (b)

**Other information**

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<sup>3</sup>

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<sup>3</sup>

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<sup>3</sup>

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

Trade name: Härter S für cds-Grundierung farblos

Version: 3 / GB

Date revised: 19.08.2025

Substance number: 11878

Replaces Version: 2 / GB

Print date: 19.08.2025

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 <sup>3</sup>

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	20,1	mg/m <sup>3</sup>

**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 <sup>3</sup>

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 <sup>3</sup>

**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	

Trade name: Härter S für cds-Grundierung farblos

Version: 3 / GB

Date revised: 19.08.2025

Substance number: 11878

Replaces Version: 2 / GB

Print date: 19.08.2025

Route of exposure	inhalative	
Concentration	0,5	mg/m <sup>3</sup>

**Polyoxypropylenediamine**

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	2,5	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	5,29	mg/m <sup>3</sup>

**3-aminopropyltriethoxysilane**

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	14	mg/m <sup>3</sup>

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	
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Trade name: Härter S für cds-Grundierung farblos

Version: 3 / GB

Date revised: 19.08.2025

Substance number: 11878

Replaces Version: 2 / GB

Print date: 19.08.2025

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	
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	
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Trade name: Härter S für cds-Grundierung farblos

Version: 3 / GB

Date revised: 19.08.2025

Substance number: 11878

Replaces Version: 2 / GB

Print date: 19.08.2025

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
<b>salicylic acid</b>			
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**

Trade name: Härter S für cds-Grundierung farblos

Version: 3 / GB

Date revised: 19.08.2025

Substance number: 11878

Replaces Version: 2 / GB

Print date: 19.08.2025

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

Type of value	PNEC		
Type	Marine		
Concentration	0,001		mg/l

**Polyoxypropylenediamine**

Type of value	PNEC		
Type	Freshwater		
Concentration	0,015		mg/l

Type of value	PNEC		
Type	Water (intermittent release)		
Concentration	0,15		mg/l

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

Type of value	PNEC		
Type	Sewage treatment plant (STP)		
Concentration	7,5		mg/l

Type of value	PNEC		
Type	Freshwater sediment		
Concentration	0,132		mg/kg

Type of value	PNEC		
Type	Marine sediment		
Concentration	0,125		mg/kg

Type of value	PNEC		
Type	Soil		
Concentration	0,018		mg/kg

Type of value	PNEC		
Type	Secondary poisoning		
Concentration	6,93		mg/kg

**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

Trade name: Härter S für cds-Grundierung farblos

Version: 3 / GB

Date revised: 19.08.2025

Substance number: 11878

Replaces Version: 2 / GB

Print date: 19.08.2025

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

<b>Physical state</b>	liquid		
<b>Odour</b>	amine-like		
<b>Colour</b>	yellow		
<b>Melting point</b>			
Remarks	not determined		
<b>Freezing point</b>			
Remarks	not determined		
<b>Boiling point or initial boiling point and boiling range</b>			
Value	$>$ 200		°C
Pressure	1013	hPa	
<b>Flammability</b>			
evaluation	not determined		
<b>Upper and lower explosive limits</b>			
Remarks	not determined		
<b>Flash point</b>			

Trade name: Härter S für cds-Grundierung farblos

Version: 3 / GB

Date revised: 19.08.2025

Substance number: 11878

Replaces Version: 2 / GB

Print date: 19.08.2025

Value &gt; 100 °C

**Ignition temperature**

Remarks not determined

**Decomposition temperature**

Remarks not determined

**pH value**

Value 11 to 12

Concentration/H<sub>2</sub>O 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 density**Value 1 g/cm<sup>3</sup>

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.

Trade name: Härter S für cds-Grundierung farblos

Version: 3 / GB

Date revised: 19.08.2025

Substance number: 11878

Replaces Version: 2 / GB

Print date: 19.08.2025

**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	2.120,89 22	mg/kg
-----	----------------	-------

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

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

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

ATE	1200	mg/kg
-----	------	-------

**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
-----	------	-------

**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

**Polyoxypropylenediamine**

Species	rat	
LD50	2885	mg/kg
Method	OECD 401	

**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

Trade name: Härter S für cds-Grundierung farblos

Version: 3 / GB

Date revised: 19.08.2025

Substance number: 11878

Replaces Version: 2 / GB

Print date: 19.08.2025

Duration of exposure 90 d

**Acute dermal toxicity**

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

**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

**Polyoxypropylenediamine**

Species	rabbit		
LD50		2980	mg/kg
Method	OECD 402		

**4-tert-Butylphenol**

Species	rabbit		
LD50	>	2000	mg/kg

**3-aminopropyltriethoxysilane**

Species	rabbit		
LD50	>	2000	mg/kg
Method	EPA		

**Acute inhalational toxicity**

ATE	14,8099	mg/l
Administration/Form	Dust/Mist	
Method	calculated value (Regulation (EC) No. 1272/2008)	
ATE	>	100 mg/l
Administration/Form	Vapors	
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

Trade name: Härter S für cds-Grundierung farblos

Version: 3 / GB

Date revised: 19.08.2025

Substance number: 11878

Replaces Version: 2 / GB

Print date: 19.08.2025

**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
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
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**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)**

Trade name: Härter S für cds-Grundierung farblos

Version: 3 / GB

Date revised: 19.08.2025

Substance number: 11878

Replaces Version: 2 / GB

Print date: 19.08.2025

**benzyl alcohol**

evaluation sensitizing

**Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol**

evaluation sensitizing

**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.

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 (*Pimephales promelas*)

LC50 460 mg/l

Duration of exposure 96 h

**benzyl alcohol**Species golden orfe (*Leuciscus idus*)

LC50 &gt; 645 mg/l

Duration of exposure 96 h

**m-Phenylenebis(methylamine)**Species rainbow trout (*Oncorhynchus mykiss*)

LC50 &gt; 100 mg/l

Duration of exposure 96 h

**m-Phenylenebis(methylamine)**

Trade name: Härter S für cds-Grundierung farblos

Version: 3 / GB

Date revised: 19.08.2025

Substance number: 11878

Replaces Version: 2 / GB

Print date: 19.08.2025

Species	Oryzias latipes		
LC50	87,6		mg/l
Duration of exposure	96	h	

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

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

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

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	

**Polyoxypropylenediamine**

Species	rainbow trout (Oncorhynchus mykiss)		
EC50	> 15		mg/l
Duration of exposure	96	h	
Method	OECD 203		

**4-tert-Butylphenol**

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

**4-tert-Butylphenol**

Species	Fathead minnow (Pimephales promelas)		
LC50	5,1		mg/l
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	

Trade name: Härter S für cds-Grundierung farblos

Version: 3 / GB

Date revised: 19.08.2025

Substance number: 11878

Replaces Version: 2 / GB

Print date: 19.08.2025

**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
Duration of exposure	48	h	

**Polyoxypropylenediamine**

Species	Daphnia magna		
EC50	80		mg/l
Duration of exposure	48	h	
Method	OECD 202		

**4-tert-Butylphenol**

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

**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	

Trade name: Härter S für cds-Grundierung farblos

Version: 3 / GB

Date revised: 19.08.2025

Substance number: 11878

Replaces Version: 2 / GB

Print date: 19.08.2025

**Polyoxypropylenediamine**

Species	Selenastrum capricornutum		
ErC50	15		mg/l
Duration of exposure	72	h	
Method	OECD 201		

**Polyoxypropylenediamine**

Species	Skeletonema costatum		
ErC50	141		mg/l
Duration of exposure	2	h	
Method	DIN EN ISO 10253		

**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	Desmodemus subspicatus		
EC50	>	1000	mg/l
Duration of exposure	72	h	
Method	OECD 201		

**3-aminopropyltriethoxysilane**

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

**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	

Trade name: Härter S für cds-Grundierung farblos

Version: 3 / GB

Date revised: 19.08.2025

Substance number: 11878

Replaces Version: 2 / GB

Print date: 19.08.2025

**Polyoxypropylenediamine**

Species	activated sludge		
EC50	750		mg/l
Duration of exposure	3	h	
Method	OECD 209		

**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 evaluation	21	d	
Method	Readily biodegradable (according to OECD criteria) 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

**benzyl alcohol**log Pow 1  
Temperature 20 °C**Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol**

log Pow 6,3

**Bioconcentration factor (BCF) (Components)****benzyl alcohol**

BCF 1,37

**Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol**

BCF 3000

**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**

Trade name: Härter S für cds-Grundierung farblos

Version: 3 / GB

Date revised: 19.08.2025

Substance number: 11878

Replaces Version: 2 / GB

Print date: 19.08.2025

### 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.

#### 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 \*\*\***

Trade name: Härter S für cds-Grundierung farblos







Version: 3 / GB

Date revised: 19.08.2025

Substance number: 11878

Replaces Version: 2 / GB

Print date: 19.08.2025

	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	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 E2 Hazardous to the Aquatic Environment 200000 kg 500000 kg

**VOC**

VOC (EU) 0 % 0 g/l

Trade name: Härter S für cds-Grundierung farblos

Version: 3 / GB

Date revised: 19.08.2025

Substance number: 11878

Replaces Version: 2 / GB

Print date: 19.08.2025

### Other regulations, restrictions and prohibition regulations

Handling epoxy resin systems safely (published by PlasticsEurope) [www.plasticseurope.org](http://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)

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
Skin Corr. 1C	Skin corrosion, Category 1C
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

### Abbreviations

Trade name: Härter S für cds-Grundierung farblos

Version: 3 / GB

Date revised: 19.08.2025

Substance number: 11878

Replaces Version: 2 / GB

Print date: 19.08.2025

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.