

Trade name: Hardener FH for cds-Mortar 0-1 FB

Version: 1.0 / EN

Date revised 09.12.2022

Substance number: 11404

Replaces Version: - / EN

Print date: 12.12.2022

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

1.1. Product identifier

Hardener FH for cds-Mortar 0-1 FB

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

Use of the substance/preparation

coating material

1.3. Details of the supplier of the safety data sheet

Address/Manufacturer

cds Polymere GmbH & Co. KG

Gau-Bickelheimer Str. 72

55576 Sprendlingen/Rhh.

Telephone no. +49(6701) 9350-0

Fax no. +49(6701) 9350-50

1.4. Emergency telephone number

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

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

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

Acute Tox. 4	H302
Skin Corr. 1	H314
Eye Dam. 1	H318
Skin Sens. 1	H317
Repr. 2	H361d
Aquatic Chronic 3	H412

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.
H361d	Suspected of damaging the unborn child.
H412	Harmful to aquatic life with long lasting effects.

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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	Benzylalcohol; 3-Aminomethyl-3,5,5-trimethylcyclohexylamin; m-Phenylenbis(methylamin); Salicylsäure
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2.3. Other hazards

No special hazards have to be mentioned.

SECTION 3: Composition/information on ingredients**Hazardous ingredients****Benzylalcohol**

CAS No.	100-51-6
EINECS no.	202-859-9
Registration no.	01-2119492630-38-XXXX
Concentration	>= 25 < 50 %
Classification (Regulation (EC) No. 1272/2008)	
	Acute Tox. 4 H302
	Acute Tox. 4 H332

3-Aminomethyl-3,5,5-trimethylcyclohexylamin

CAS No.	2855-13-2
EINECS no.	220-666-8
Registration no.	01-2119514687-32-XXXX
Concentration	>= 25 < 50 %
Classification (Regulation (EC) No. 1272/2008)	
	Acute Tox. 4 H302
	Skin Corr. 1B H314
	Eye Dam. 1 H318
	Skin Sens. 1A H317

Salicylsäure

CAS No.	69-72-7
EINECS no.	200-712-3
Registration no.	01-2119486984-17-XXXX
Concentration	>= 3 < 10 %
Classification (Regulation (EC) No. 1272/2008)	
	Eye Dam. 1 H318
	Acute Tox. 4 H302
	Repr. 2 H361d

m-Phenylenbis(methylamin)

CAS No.	1477-55-0
EINECS no.	216-032-5
Registration no.	01-2119480150-50-XXXX
Concentration	>= 1 < 3 %
Classification (Regulation (EC) No. 1272/2008)	
	Acute Tox. 4 H302

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Aquatic Chronic 3	H412
Skin Corr. 1B	H314
Acute Tox. 4	H332
Eye Dam. 1	H318
Skin Sens. 1B	H317

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

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

After inhalation

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

After skin contact

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

After eye contact

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

After ingestion

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

Adhere to personal protective measures when giving first aid

First aider: Pay attention to self-protection!

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

Until now no symptoms known so far.

4.3. Indication of any immediate medical attention and special treatment needed

Hints for the physician / hazards

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

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Dry powder

Non suitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

In case of combustion evolution of dangerous gases possible.

5.3. Advice for firefighters

Special protective equipment for fire-fighting

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

Other information

Collect contaminated fire-fighting water separately, must not be discharged into the drains. Fire residues and contaminated fire-fighting water must be disposed of in accordance with the local regulations.

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Observe manufacturer's / distributor`s instructions.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

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

6.4. Reference to other sections

Refer to protective measures listed in Sections 7 and 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

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

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

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

Hints on storage assembly

Do not store together with foodstuffs.

Storage classes

Storage class according to TRGS 510 8A Combustible corrosive hazardous substances

Further information on storage conditions

Do not keep at temperatures above 20 °C.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit values

Benzyl alcohol

List TRGS 900

Type AGW

Value 22 mg/m³ 5 ppm(V)

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

m-Phenylenbis(methylamin)

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List	ACGIH	
Type	C	
Value	0,1	mg/m ³

Other information

Contains no substances with occupational exposure limit values.

Derived No/Minimal Effect Levels (DNEL/DMEL)

Benzylalcohol

Reference substance	Benzylalcohol	
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	8	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	Benzylalcohol 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	Benzylalcohol 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-Phenylenbis(methylamin)

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-trimethylcyclohexylamin

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Route of exposure	inhalative	
Concentration	0,073	mg/m ³

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Salicylsäure

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

Predicted No Effect Concentration (PNEC)

Benzylalcohol

Type of value	PNEC	
Type	Water	
Concentration	1	mg/l
Type of value	PNEC	
Type	Water (intermittent release)	
Concentration	2,31	mg/l
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	Benzylalcohol PNEC	
Type	Freshwater sediment	
Concentration	5,27	mg/kg
Type of value	Benzylalcohol PNEC	
Type	Marine sediment	
Concentration	0,527	mg/kg
Type of value	Benzylalcohol PNEC	
Type	Soil	
Concentration	0,456	mg/kg

m-Phenylenbis(methylamin)

Type of value	PNEC	
Type	Freshwater	
Concentration	0,094	mg/l
Type of value	PNEC	
Type	Marine	
Concentration	0,0094	mg/l

3-Aminomethyl-3,5,5-trimethylcyclohexylamin

Type of value	PNEC	
Type	Freshwater	
Concentration	0,06	mg/l
Type of value	PNEC	
Type	Marine	
Concentration	0,006	mg/l

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Salicylsäure

Type of value	PNEC	
Type	Freshwater	
Concentration	0,2	mg/l
Type of value	PNEC	
Type	Marine	
Concentration	0,02	mg/l

8.2. Exposure controls**General protective and hygiene measures**

Hold emergency shower available. Hold eye wash fountain available. Do not inhale gases/vapours/aerosols. Avoid contact with skin and eyes. Do not eat, drink or smoke during work time. Storage of foodstuffs in work rooms is forbidden. Wash hands before breaks and after work. Clean skin thoroughly after work; apply skin cream.

Respiratory protection

If workplace limits are exceeded, a respiratory protection approved for this particular job must be worn.

Hand protection

Chemical resistant gloves
Appropriate Material neoprene

Eye protection

Safety glasses with side protection shield; Face shield

Body protection

Clothing as usual in the chemical industry. Protective shoes

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Form	liquid	
Colour	yellowish	
Odour	amine-like	
Odour threshold		
Remarks	not determined	
pH value		
Remarks	not determined	
Melting point		
Remarks	not determined	
Freezing point		
Remarks	not determined	
Initial boiling point and boiling range		
Value	> 200	°C
Flash point		
Value	> 100	°C
Evaporation rate (ether = 1) :		
Remarks	not determined	
Flammability (solid, gas)		
not determined		

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Upper/lower flammability or explosive limits

Remarks not determined

Vapour pressure

Remarks not determined

Vapour density

Remarks not determined

DensityValue 1,02 g/cm³

Temperature 23 °C

Solubility in water

Remarks not determined

Solubility(ies)

Remarks not determined

Partition coefficient: n-octanol/water

Remarks not determined

Ignition temperature

Value 380 °C

Decomposition temperature

Remarks not determined

Viscosity

Remarks not determined

Explosive properties

evaluation not determined

Oxidising properties

Remarks not determined

9.2. Other information**Other information**

None known

SECTION 10: Stability and reactivity**10.1. Reactivity**

No hazardous reactions when stored and handled according to prescribed instructions.

10.2. Chemical stability

No hazardous reactions known.

10.3. Possibility of hazardous reactions

No hazardous reactions known.

10.4. Conditions to avoid

No hazardous reactions known.

10.5. Incompatible materials

None known

10.6. Hazardous decomposition products

Toxic gases/vapours, Irritant gases/vapours

SECTION 11: Toxicological information

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11.1. Information on toxicological effects

Acute oral toxicity

ATE	1.949,70 71	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)	
Remarks	The classification criteria are met.	

Acute oral toxicity (Components)

Benzylalcohol

Species	mouse	
LD50	1040	mg/kg

Benzylalcohol

Species	rat	
LD50	1620	mg/kg

m-Phenylenbis(methylamin)

Species	mouse	
LD50	1180	mg/kg

m-Phenylenbis(methylamin)

Species	rat	
LD50	980	mg/kg

3-Aminomethyl-3,5,5-trimethylcyclohexylamin

Species	rat	
LD50	1030	mg/kg

Salicylsäure

Species	rat (male)	
LD50	891	mg/kg

Acute dermal toxicity

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

Acute dermal toxicity (Components)

Benzylalcohol

Species	rabbit	
LD50	> 2000	mg/kg

m-Phenylenbis(methylamin)

Species	rabbit	
LD50	3100	mg/kg

m-Phenylenbis(methylamin)

Species	rat	
LD50	> 3100	mg/kg

3-Aminomethyl-3,5,5-trimethylcyclohexylamin

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

Salicylsäure

Species	rat	
LD50	> 2000	mg/kg

Acute inhalational toxicity

ATE	38,5965	mg/l
Administration/Form	Vapors	
Method	calculated value (Regulation (EC) No. 1272/2008)	
ATE	12,3629	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.	

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Acute inhalative toxicity (Components)**Benzylalcohol**

Reference substance	Benzylalcohol		
Species	rat		
LC50	>	4,178	mg/l
Duration of exposure	4	h	
Administration/Form	Dust/Mist		
Method	OECD 403		

m-Phenylbis(methylamin)

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

3-Aminomethyl-3,5,5-trimethylcyclohexylamin

Species	rat		
LC50	>	5,01	mg/l
Duration of exposure	4	h	
Administration/Form	Dust/Mist		

Skin corrosion/irritation

evaluation	corrosive
Remarks	The classification criteria are met.

Skin corrosion/irritation (Components)**3-Aminomethyl-3,5,5-trimethylcyclohexylamin**

evaluation	strongly corrosive
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Serious eye damage/irritation

evaluation	corrosive
Remarks	The classification criteria are met.

Serious eye damage/irritation (Components)**3-Aminomethyl-3,5,5-trimethylcyclohexylamin**

evaluation	corrosive
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Sensitization

evaluation	May cause sensitization by skin contact.
Remarks	The classification criteria are met.

Subacute, subchronic, chronic toxicity

Remarks	not determined
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Mutagenicity

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

evaluation	Suspected of damaging the unborn child.
Remarks	The classification criteria are met.

Carcinogenicity

Remarks	Based on available data, the classification criteria are not met.
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Specific Target Organ Toxicity (STOT)**Single exposure**

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

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

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

Inhalation may lead to irritation of the respiratory tract.

Other information

No toxicological data are available.

SECTION 12: Ecological information**12.1. Toxicity****General information**

not determined

Fish toxicity (Components)**Benzylalcohol**

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

Benzylalcohol

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

m-Phenylenbis(methylamin)

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

m-Phenylenbis(methylamin)

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

3-Aminomethyl-3,5,5-trimethylcyclohexylamin

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

Salicylsäure

Species	golden orfe (<i>Leuciscus idus</i>)		
LC50	90		mg/l
Duration of exposure	48	h	

Salicylsäure

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

Daphnia toxicity (Components)**Benzylalcohol**

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

m-Phenylenbis(methylamin)

Species	Daphnia magna		
EC50	15,2		mg/l
Duration of exposure	48	h	

3-Aminomethyl-3,5,5-trimethylcyclohexylamin

Species	Daphnia magna		
EC50	23		mg/l

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Duration of exposure	48	h		
Method	OECD 202			
Salicylsäure				
Species	Daphnia magna			
LC50	105	to	230	mg/l
Duration of exposure	24	h		

Algae toxicity (Components)**Benzylalcohol**

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

m-Phenylenbis(methylamin)

Species	Pseudokirchneriella subcapitata			
EC50	33,3			mg/l
Duration of exposure	72	h		

3-Aminomethyl-3,5,5-trimethylcyclohexylamin

Species	Scenedesmus subspicatus			
EbC50	37			mg/l
Duration of exposure	72	h		

Salicylsäure

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

Bacteria toxicity (Components)**Benzylalcohol**

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

Benzylalcohol

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

m-Phenylenbis(methylamin)

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

3-Aminomethyl-3,5,5-trimethylcyclohexylamin

Species	Pseudomonas putida			
EC10	1120			mg/l
Duration of exposure	18	h		

Salicylsäure

Species	activated sludge			
EC50	> 3200			mg/l
Duration of exposure	3	h		
Method	OECD 209			

12.2. Persistence and degradability**General information**

not determined

12.3. Bioaccumulative potential**General information**

not determined

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Partition coefficient: n-octanol/water

Remarks not determined

Octanol/water partition coefficient (log Pow) (Components)**3-Aminomethyl-3,5,5-trimethylcyclohexylamin**

log Pow 0,79

12.4. Mobility in soil**General information**

not determined

Mobility in soil (Components)**3-Aminomethyl-3,5,5-trimethylcyclohexylamin**

Moderately mobile in soils

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

not determined

12.6. Other adverse effects**General information**

not determined

General information / ecology

Do not allow to enter soil, waterways or waste water canal. Avoid release into the atmosphere.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations for the product**

Allocation of a waste code number, according to the European Waste Catalogue (EWC), should be carried out in agreement with the regional waste disposal company.

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
Tunnel restriction code	E		
14.1. UN number	2735	2735	2735
14.2. UN proper shipping name	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (3-Aminomethyl-3,5,5-trimethylcyclohexylamin)	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (3-Aminomethyl-3,5,5-trimethylcyclohexylamin)	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (3-Aminomethyl-3,5,5-trimethylcyclohexylamin)
14.3. Transport hazard class(es)	8	8	8
Label			
14.4. Packing group	III	III	III
Limited Quantity	5 l		
Transport category	3		

SECTION 15: Regulatory information

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

Water Hazard Class (Germany)

Water Hazard Class (Germany) WGK 2

VOC

VOC (EU) 26 % 265,2 g/l

15.2. Chemical safety assessment

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

SECTION 16: Other information

Hazard statements listed in Chapter 3

H302 Harmful if swallowed.
 H314 Causes severe skin burns and eye damage.
 H317 May cause an allergic skin reaction.
 H318 Causes serious eye damage.
 H332 Harmful if inhaled.
 H361d Suspected of damaging the unborn child.
 H412 Harmful to aquatic life with long lasting effects.

CLP categories listed in Chapter 3

Acute Tox. 4 Acute toxicity, Category 4
 Aquatic Chronic 3 Hazardous to the aquatic environment, chronic, Category 3
 Eye Dam. 1 Serious eye damage, Category 1
 Repr. 2 Reproductive toxicity, Category 2



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Skin Corr. 1B

Skin corrosion, Category 1B

Skin Sens. 1A

Skin sensitization, Category 1A

Skin Sens. 1B

Skin sensitization, Category 1B

Information about Safety Data Sheets Preparers

Oliver Nickel, o.nickel@cds-polymere.de

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.