

# Safety Data Sheet as per regulation (EC) 1907/2006

Commercial Product Name: FIS EB II Component A (Mortar )

Revision date: 09.08.2021

Version: 1/en



Print date: 09.08.2021

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

### **1.1 Product identifier**

Commercial Product Name **FIS EB II Component A (Mortar )**

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

Relevant identified uses composite mortar

Recommended restrictions None under normal processing. Observe technical data sheet.

### **1.3 Details of the supplier of the safety data sheet**

Company designation  
fischerwerke GmbH & Co. KG  
Klaus-Fischer-Straße 1  
D-72178 Waldachtal  
Telephone: +49(0)7443 12-0  
FAX: +49(0)7443 12-4222  
Email: info-sdb@fischer.de  
Internet: www.fischer.de

Marketer  
Mrs Mirka Valovicova, fischer Fixing (UK) Ltd  
Hithercroft Road  
Wallingford, Oxfordshire, OX10 9AT  
Telephone: +44 01491 827 920  
FAX: -  
Email: technical@fischer.co.uk  
Internet: www.fischer.co.uk

### **1.4 Emergency telephone number**

Emergency telephone number +49(0)6132-84463 (24h)

## **SECTION 2: Hazards identification**

### **2.1 Classification of the substance or mixture**

Classification according to Regulation (EC) No. 1272/2008 Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Chronic 2; H411

### **2.2 Label elements**

Hazard pictogram



GHS05



GHS07



GHS09

Signal word

Danger

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Hazardous component(s) to be indicated on label	portland cement , Reaction product: bisphenol F-epichlorohydrin resins with average molecular weight $\leq 700$ , reaction product: bisphenol-A-(epichlorohydrin); epoxy resin (number average molecular weight $\leq 700$ ) , [3-(2,3-Epoxypropoxy)propyl]trimethoxysilane
H-statement(s)	H315: Causes skin irritation. H317: May cause an allergic skin reaction. H318: Causes serious eye damage. H411: Toxic to aquatic life with long lasting effects.
P-statement(s)	P280: Wear protective gloves/protective clothing/eye protection/face protection. 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/doctor.
Further information	EUH205: Contains epoxy constituents. May produce an allergic reaction.

## 2.3 Other hazards

Health hazard	No information available.
Particular information pertaining specific risk for human / environment	No information available.
Indication of danger	No information available.
Hazard precautions	No information available.

## SECTION 3: Composition/information on ingredients

### Hazardous ingredients

Ingredient	CAS No.	Classification (EC) 1272/2008	Concentration
portland cement	CAS No.: 65997-15-1 EC-No.: 266-043-4 REACH No.: The substance does not require registration according to Regulation (EC) No 1907/2006 [REACH].	Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT SE 3; H335	10.0 - 25.0 % by weight
Reaction product: bisphenol F-epichlorohydrin resins with average molecular weight $\leq 700$	CAS No.: 28064-14-4 EC-No.: 608-164-0 REACH No.: 01-2119454392-40	Eye Irrit. 2; H319 Skin Irrit. 2; H315 Skin Sens. 1; H317 Aquatic Chronic 2; H411	10.0 - 25.0 % by weight
reaction product: bisphenol-A-(epichlorohydrin); epoxy resin (number average molecular weight $\leq 700$ )	CAS No.: 25068-38-6 EC-No.: 500-033-5 Index-No.: 603-074-00-8 REACH No.: 01-2119456619-26	Eye Irrit. 2; H319 Skin Irrit. 2; H315 Skin Sens. 1; H317 Aquatic Chronic 2; H411	10.0 - 25.0 % by weight
benzyl alcohol	CAS No.: 100-51-6 EC-No.: 202-859-9 Index-No.: 603-057-00-5 REACH No.: 01-2119492630-38	Acute Tox. 4; H332 Acute Tox. 4; H302 Acute Tox. 4; H312 Eye Irrit. 2; H319	2.5 - 10.0 % by weight

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Ingredient	CAS No.	Classification (EC) 1272/2008	Concentration
[3-(2,3-Epoxypropoxy)propyl]trimethoxysilane	CAS No.: 2530-83-8 EC-No.: 219-784-2 REACH No.: 01-2119513212-58	Eye Dam. 1;H318	2.5 - 10.0 % by weight

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General advice	Take off immediately all contaminated clothing. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Wear personal protection equipment (refer to section 8).
If inhaled	Provide fresh air. In case of respiratory tract irritation, consult a physician.
In case of skin contact	After contact with skin, wash immediately with plenty of water and soap. Do NOT use solvents or thinners.
In case of eye contact	Remove contact lenses. In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.
If swallowed	If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Let water be drunken in little sips (dilution effect). Do NOT induce vomiting.

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

Symptoms	No information available.
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### 4.3 Indication of any immediate medical attention and special treatment needed

Immediate medical attention	If unconscious place in recovery position and seek medical advice.
Special medical treatment	Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media	spray mist, (water), Water spray jet, alcohol resistant foam, carbon dioxide, Extinguishing powder
Extinguishing media which must not be used for safety reasons	Full water jet

### 5.2 Special hazards arising from the substance or mixture

Special exposure hazards arising from the substance or preparation	Heating or fire can release toxic gas. Fight fire with normal precautions from a reasonable distance.
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tion itself, its combustion products, or released gases

## 5.3 Advice for firefighters

Special protective equipment for firefighting

In case of fire: Wear self-contained breathing apparatus.  
For the protection against direct skin contact, body protective clothing is essential (in addition to the usual working clothes).

Additional information on firefighting

Suppress (knock down) gases/vapours/mists with a water spray jet.  
Do not allow water used to extinguish fire to enter drains, ground or waterways.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions

For non-emergency personnel  
Accidental release measures:  
Wear personal protection equipment (refer to section 8).  
Remove all sources of ignition.  
Ensure adequate ventilation, especially in confined areas.

### 6.2 Environmental precautions

Environmental precautions

The product should not be allowed to enter drains, water courses or the soil.  
Prevent spread over a wide area (e.g. by containment or oil barriers).

### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up

Allow stiffening. Take up mechanically.  
Treat the recovered material as prescribed in the section on waste disposal.

### 6.4 Reference to other sections

Reference to other sections

Reference to other sections : 7 / 8 / 13

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling

Keep container tightly closed.  
Hygiene measures: When using do not eat, drink or smoke. Wash hands before breaks and after work.  
Take off contaminated clothing and wash it before reuse.

Advice on protection against fire and explosion

No special measures are necessary.

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## 7.2 Conditions for safe storage, including any incompatibilities

Storage space and container requirements	Keep/Store only in original container. Keep container tightly closed and dry. Store in accordance with local regulations.
Unsuitable materials for containers	Keep only in original container.
Hints on storage assembly	Keep away from food, drink and animal feedingstuffs.
German storage class	10-13
Recommended storage temperature	+5 - 25 °C

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

portland cement

Great Britain

Long-term exposure value/ mg/m <sup>3</sup>	Remarks	Source
10	inhalable dust	EH40/2005 Workplace exposure limits (2011)
4	respirable dust	EH40/2005 Workplace exposure limits (2011)

### 8.2 Exposure controls

Respiratory protection	In case of inadequate ventilation wear respiratory protection.
Hand protection	May cause sensitization of susceptible persons by skin contact. Avoid contact with eyes and skin.
Suitable material	Protective gloves complying with EN 374. Butyl caoutchouc (butyl rubber), NBR (Nitrile rubber)
Unsuitable material	PVC or rubber gloves are not recommended.
Material thickness	adjust to application and duration of use
Break through time	> 120 min
Evaluation	-
Remarks	Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).
Note	Replace when worn.
Eye protection	Wear closely fitting protective glasses in case of splashes. Safety glasses with side-shields conforming to EN166
Skin and body protection	Long sleeved clothing

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Note	Choose body protection according to the amount and concentration of the dangerous substance at the work place.
General protective and hygiene measures	Do not eat, drink or smoke when using this product. Avoid contact with the skin and the eyes. Wash hands and face before breaks and after work and take a shower if necessary. Keep away from food, drink and animal feedingstuffs. Use protective skin cream before handling the product.
Information on environmental protection regulations	No special environmental measures are necessary. see section 6/7
Engineering measures	Provide adequate ventilation.

## **SECTION 9: Physical and chemical properties**

### **9.1 Information on basic physical and chemical properties**

Form	Paste
Colour	white
Odour	characteristic
Odour threshold	not determined
Melting point [°C] / Freezing point [°C]	No data available
Boiling point [°C]	No data available
Flash point [°C]	> 100
Evaporation rate [kg/(s*m²)]	No data available
Flammability (solid, gas)	No data available
Explosion limits [Vol-% ]	
Lower limit	No data available
Upper limit	No data available
Vapour pressure [kPa]	No data available
Vapour density	No data available
Density [g/cm³]	1,8 - 1,9
Relative density	No data available
Solubility	No data available
Water solubility [g/l]	No data available
Solubility [g/l]	No data available
Partition coefficient n-octanol /water (log P O/W)	No data available

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Autoinflammability	not auto-flammable
Decomposition temperature [°C]	No data available
Viscosity, dynamic [kg/(m*s)]	150 - 250
Explosive properties	not explosive.
Oxidising properties	No

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Reactivity	No hazardous reaction when handled and stored according to provisions. No decomposition if stored and applied as directed.
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### 10.2 Chemical stability

Chemical stability	Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7.
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### 10.3 Possibility of hazardous reactions

Hazardous reactions	No hazardous reaction when handled and stored according to provisions.
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### 10.4 Conditions to avoid

Conditions to avoid	The mixture is chemically stable under recommended conditions of storage, use and temperature.
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### 10.5 Incompatible materials

Materials to avoid	Strong acids and oxidizing agents
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### 10.6 Hazardous decomposition products

Hazardous decomposition products	No known hazardous decomposition products.
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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Oral toxicity [mg/kg]

Hazardous ingredients

portland cement			
Value	Test criterion	Remarks	Source
> 2000	LD50	literature value	Company data

Reaction product: bisphenol F-epichlorohydrin resins with average molecular weight <= 700			
Value	Test criterion	Test species	Source
> 5000	LD50	rat	Company data

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reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)			
Value	Test criterion	Test species	Source
30000	LD50	rat	Company data

benzyl alcohol			
Value	Test criterion	Test species	Source
1230	LD50	Rat	Company data

[3-(2,3-Epoxypropoxy)propyl]trimethoxysilane			
Value	Test criterion	Test species	Source
8025	LD50	Rat	Company data

**Dermal toxicity [mg/kg]****Hazardous ingredients**

portland cement				
Value	Test criterion	Test species	Remarks	Source
> 2000	LD50	rabbit	Limit test 2000 mg/kg	Company data

Reaction product: bisphenol F-epichlorohydrin resins with average molecular weight <= 700			
Value	Test criterion	Test species	Source
> 2000	LD50	rat	Company data

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)			
Value	Test criterion	Test species	Source
> 2000	LD50	rat	Company data

benzyl alcohol			
Value	Test criterion	Test species	Source
>2000	LD50	Rabbit	Company data

[3-(2,3-Epoxypropoxy)propyl]trimethoxysilane			
Value	Test criterion	Test species	Source
4250	LD50	Rabbit	Company data

**Inhalative toxicity [mg/l]****Hazardous ingredients**

portland cement				
Value	Test criterion	Test species	Note	Source
> 5	LC50	rat	Limit Test 5 g/m <sup>3</sup>	Company data

Reaction product: bisphenol F-epichlorohydrin resins with average molecular weight <= 700		
Value	Note	Source
Based on available data, the classification criteria are not met.	An LC50/inhalation/4h/rat could not be determined because no mortality of rats was observed at the maximum achievable concentration.	Company data



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reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)			
Value	Test criterion	Test species	Source
0,000008	LC0	rat	Company data
An LC50/inhalation/4h/rat could not be determined because no mortality of rats was observed at the maximum achievable concentration.			Company data

benzyl alcohol				
Value	Test criterion	Test species	Note	Source
> 4,1	LC50	rat	OECD 403	Company data

[3-(2,3-Epoxypropoxy)propyl]trimethoxysilane			
Value	Test criterion	Test species	Source
>5,3	LC50	Rat	Company data

**LC50 Inhalation 1h for gases [ppmV]****Hazardous ingredients**

Reaction product: bisphenol F-epichlorohydrin resins with average molecular weight <= 700		
Value	Note	Source
> 20000	An LC50/inhalation/4h/rat could not be determined because no mortality of rats was observed at the maximum achievable concentration.	Company data

**LC50 Inhalation 4h for vapours [mg/l]****Hazardous ingredients**

Reaction product: bisphenol F-epichlorohydrin resins with average molecular weight <= 700		
Value	Note	Source
> 20	An LC50/inhalation/4h/rat could not be determined because no mortality of rats was observed at the maximum achievable concentration.	Company data

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)		
Value	Note	Source
> 20	An LC50/inhalation/4h/rat could not be determined because no mortality of rats was observed at the maximum achievable concentration.	Company data

benzyl alcohol				
Value	Test criterion	Test species	Note	Source

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> 4178	LC50:	Rat	Saturated vapour concentration (SVC)	Company data
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**LC50 Inhalation 4h for dusts and sprays [mg/l]****Hazardous ingredients**

Reaction product: bisphenol F-epichlorohydrin resins with average molecular weight <= 700		
Value	Note	Source
> 5	An LC50/inhalation/4h/rat could not be determined because no mortality of rats was observed at the maximum achievable concentration.	Company data

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)		
Value	Note	Source
> 5	An LC50/inhalation/4h/rat could not be determined because no mortality of rats was observed at the maximum achievable concentration.	Company data

benzyl alcohol			
Value	Test criterion	Test species	Source
>4178	LC50:	Rat	Company data

**Irritant effect on skin****Hazardous ingredients**

portland cement	
Value	Source
Irritant	Company data

Reaction product: bisphenol F-epichlorohydrin resins with average molecular weight <= 700	
Value	Source
Causes skin irritation.	Company data

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)	
Value	Source
Causes skin irritation.	Company data

benzyl alcohol	
Value	Source
slightly irritant	Company data

[3-(2,3-Epoxypropoxy)propyl]trimethoxysilane			
Value	Measuring method	Test species	Source
no classification	OECD Test Guideline 404	Rabbit	Company data

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## Irritant effect on eyes

### Hazardous ingredients

portland cement	
Value	Source
Causes serious eye damage.	Company data

Reaction product: bisphenol F-epichlorohydrin resins with average molecular weight <= 700	
Value	Source
Causes serious eye irritation.	Company data

reaction product: bisphenol-A-(epichlorohydrin); epoxy resin (number average molecular weight <= 700)	
Value	Source
Causes serious eye irritation.	Company data

benzyl alcohol	
Value	Source
Causes serious eye irritation.	Company data

[3-(2,3-Epoxypropoxy)propyl]trimethoxysilane				
Value	Measuring method	Test species	Exposure duration	Source
Causes serious eye damage.	OECD Test Guideline 405	Rabbit	4 h	Company data

## Irritant effect on the respiratory tract

### Hazardous ingredients

portland cement	
Value	Source
Based on available data, the classification criteria are not met.	Company data

## Sensitization

### Hazardous ingredients

portland cement	
Value	Source
No sensitization responses were observed.	Company data

Reaction product: bisphenol F-epichlorohydrin resins with average molecular weight <= 700	
Value	Source
May cause an allergic skin reaction.	Company data

reaction product: bisphenol-A-(epichlorohydrin); epoxy resin (number average molecular weight <= 700)	
Value	Source
May cause an allergic skin reaction.	Company data

benzyl alcohol	
Value	Source
No known effect.	Company data

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[3-(2,3-Epoxypropoxy)propyl]trimethoxysilane			
Value	Measuring method	Test species	Source
Based on available data, the classification criteria are not met.	Buehler Test, OECD 406	Guinea pig	Company data

**Carcinogenic effects****Hazardous ingredients**

portland cement	
Value	Source
Based on available data, the classification criteria are not met.	Company data

Reaction product: bisphenol F-epichlorohydrin resins with average molecular weight <= 700	
Value	Source
Not applicable.	Company data

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)	
Value	Source
Not applicable.	Company data

benzyl alcohol	
Value	Source
No known effect.	Company data

[3-(2,3-Epoxypropoxy)propyl]trimethoxysilane		
Value	Test species	Source
Based on available data, the classification criteria are not met.	Mouse	Company data

**Mutagenicity****Hazardous ingredients**

portland cement	
Value	Source
Based on available data, the classification criteria are not met.	Company data

Reaction product: bisphenol F-epichlorohydrin resins with average molecular weight <= 700	
Value	Source
Not applicable.	Company data

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)	
Value	Source
Not applicable.	Company data

benzyl alcohol
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Value	Source
No known effect.	Company data

[3-(2,3-Epoxypropoxy)propyl]trimethoxysilane	
Value	Source
Ames test negative.	Company data

**Reproduction toxicity****Hazardous ingredients**

portland cement	
Value	Source
Based on available data, the classification criteria are not met.	Company data

Reaction product: bisphenol F-epichlorohydrin resins with average molecular weight <= 700	
Value	Source
Not applicable.	Company data

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)	
Value	Source
Not applicable.	Company data

benzyl alcohol	
Value	Source
No known effect.	Company data

[3-(2,3-Epoxypropoxy)propyl]trimethoxysilane			
Value	Measuring method	Test species	Source
Based on available data, the classification criteria are not met.	OECD 415	Rat	Company data

**Caustic effect****Hazardous ingredients**

portland cement	
Value	Source
Based on available data, the classification criteria are not met.	Company data

Reaction product: bisphenol F-epichlorohydrin resins with average molecular weight <= 700	
Value	Source
Not applicable.	Company data

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)	
Value	Source
Not applicable.	Company data

benzyl alcohol	
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Value	Source
No data available	Company data

[3-(2,3-Epoxypropoxy)propyl]trimethoxysilane	
Value	Source
Causes serious eye damage.	Company data

## Specific target organ toxicity (single exposure) [mg/kg]

### Hazardous ingredients

portland cement	
Specific effects	Source
Irritating to respiratory system. (dust)	Company data

Reaction product: bisphenol F-epichlorohydrin resins with average molecular weight <= 700	
Remarks	Source
Not applicable.	Company data

reaction product: bisphenol-A(epichlorhydrin); epoxy resin (number average molecular weight <= 700)	
Remarks	Source
Not applicable.	Company data

benzyl alcohol	
Remarks	Source
No data available	Company data

[3-(2,3-Epoxypropoxy)propyl]trimethoxysilane	
Remarks	Source
*1)	Company data

\*1): Based on available data, the classification criteria are not met.

## Specific target organ toxicity (repeated exposure) [mg/kg]

### Hazardous ingredients

portland cement	
Remarks	Source
*1)	Company data

\*1): Based on available data, the classification criteria are not met.

Reaction product: bisphenol F-epichlorohydrin resins with average molecular weight <= 700	
Remarks	Source
Not applicable.	Company data

reaction product: bisphenol-A(epichlorhydrin); epoxy resin (number average molecular weight <= 700)	
Remarks	Source
Not applicable.	Company data

benzyl alcohol	
Remarks	Source
No data available	Company data

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[3-(2,3-Epoxypropoxy)propyl]trimethoxysilane	
Specific effects	Source
Based on available data, the classification criteria are not met.	Company data

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Toxicity to fish [mg/l]

##### Hazardous ingredients

portland cement		
Value	Test criterion	Source
> 100	LC50	Company data

Reaction product: bisphenol F-epichlorohydrin resins with average molecular weight <= 700				
Value	Test criterion	Measuring method	Exposure duration	Source
> 1	LC50	OECD Test Guideline 203	96 h	Company data

reaction product: bisphenol-A-(epichlorohydrin); epoxy resin (number average molecular weight <= 700)				
Value	Test criterion	Measuring method	Exposure duration	Source
1,3	LC50	OECD Test Guideline 203	96 h	Company data

benzyl alcohol				
Value	Test criterion	Test species	Exposure duration	Source
460	LC50	Pimephales promelas (fat-head minnow)	96 h	Company data

[3-(2,3-Epoxypropoxy)propyl]trimethoxysilane					
Value	Test criterion	Test species	Measuring method	Exposure duration	Source
55	LC50	Cyprinus carpio (Carp)	OECD Test Guideline 203	96 h	Company data

#### Toxicity to daphnia [mg/l]

##### Hazardous ingredients

portland cement			
Value	Test criterion	Test species	Source
> 100	LC50	Daphnia magna (Water flea)	Company data

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Reaction product: bisphenol F-epichlorohydrin resins with average molecular weight <= 700					
Value	Test criterion	Test species	Exposure duration	Measuring method	Source
> 1	EC50	Daphnia magna (Water flea)	48 h	OECD Test Guideline 202	Company data

reaction product: bisphenol-A-(epichlorohydrin); epoxy resin (number average molecular weight <= 700)				
Value	Test criterion	Test species	Exposure duration	Source
1,8	EC50	Daphnia magna (Water flea)	48 h	Company data

benzyl alcohol				
Value	Test criterion	Test species	Exposure duration	Source
230	EC50	Daphnia magna (Water flea)	48 h	Company data

[3-(2,3-Epoxypropoxy)propyl]trimethoxysilane					
Value	Test criterion	Test species	Exposure duration	Measuring method	Source
324	EC50	Daphnia magna (Big water flea)	48 h	OECD Test Guideline 202	Company data

**Toxicity to algae [mg/l]****Hazardous ingredients**

portland cement		
Value	Test criterion	Source
> 100	EC50	Company data

Reaction product: bisphenol F-epichlorohydrin resins with average molecular weight <= 700			
Value	Test criterion	Exposure duration	Source
> 1	EC50	72 h	Company data

reaction product: bisphenol-A-(epichlorohydrin); epoxy resin (number average molecular weight <= 700)				
Value	Test criterion	Test species	Exposure duration	Source
10	EC50	Chlorella pyrenoidosa	72 h	Company data

benzyl alcohol				
Value	Test criterion	Test species	Exposure duration	Source
700	IC50:	Pseudokirchneriella subcapitata	72 h	Company data

[3-(2,3-Epoxypropoxy)propyl]trimethoxysilane					
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Value	Test criterion	Test species	Exposure duration	Measuring method	Source
350	ErC50	Selenastrum capricornutum (green algae)	96 h	OECD Test Guideline 201	Company data

**NOEC (daphnia) [mg/l]****Hazardous ingredients****Reaction product: bisphenol F-epichlorohydrin resins with average molecular weight <= 700**

Value	Test species	Measuring method	Source
0,3	Daphnia magna (Big water flea)	OECD 211	Company data

**reaction product: bisphenol-A-(epichlorohydrin); epoxy resin (number average molecular weight <= 700)**

Value	Test species	Measuring method	Source
0,3	Daphnia magna (Big water flea)	OECD 211	Company data

**benzyl alcohol**

Value	Test species	Measuring method	Source
51	Daphnia magna (Big water flea)	OECD 211	Company data

**[3-(2,3-Epoxypropoxy)propyl]trimethoxysilane**

Value	Test criterion	Test species	Measuring method	Source
100	NOEC	Daphnia magna (Big water flea)	OECD 202	Company data

**NOEC (algae) [mg/l]****Hazardous ingredients****[3-(2,3-Epoxypropoxy)propyl]trimethoxysilane**

Value	Test criterion	Test species	Measuring method	Source
130	NOEC	Selenastrum capricornutum (green algae)	OECD 201	Company data

**12.2 Persistence and degradability****Biodegradability****Hazardous ingredients****portland cement**

Value	Source
Not applicable. (inorganic)	Company data

**Reaction product: bisphenol F-epichlorohydrin resins with average molecular weight <= 700**

Value	Source
Not readily biodegradable.	Company data

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reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)	
Value	Source
Not readily biodegradable.	Company data

benzyl alcohol	
Value	Source
Readily biodegradable.	Company data

[3-(2,3-Epoxypropoxy)propyl]trimethoxysilane	
Value	Source
Readily biodegradable (according to OECD criteria).	Company data

## 12.3 Bioaccumulative potential

### Bioaccumulation

#### Hazardous ingredients

portland cement	
Value	Source
Not applicable. (inorganic)	Company data

Reaction product: bisphenol F-epichlorohydrin resins with average molecular weight <= 700		
Value	Remarks	Source
log Pow 2,7 - 3,6	*1)	Company data

\*1): On the basis of existing data about the elimination/degradation and bioaccumulation potential longer term damage to the environment cannot be ruled out.

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)		
Value	Remarks	Source
log Pow 2,64 - 3,78	*1)	Company data

\*1): On the basis of existing data about the elimination/degradation and bioaccumulation potential longer term damage to the environment cannot be ruled out.

benzyl alcohol	
Value	Source
no data available	Company data

[3-(2,3-Epoxypropoxy)propyl]trimethoxysilane	
Value	Source
The product is unstable in water. The information on elimination also refers to the hydrolysis products. Based on the n-octanol/water partition coefficient accumulation in organisms is not expected.	Company data

### Bioconcentration factor (BCF)

#### Hazardous ingredients

benzyl alcohol	
Value	Source
1,37	Company data

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## 12.4 Mobility in soil

### Mobility

#### Hazardous ingredients

portland cement	
Value	Source
Not applicable. (inorganic)	Company data

Reaction product: bisphenol F-epichlorohydrin resins with average molecular weight <= 700	
Value	Source
No data available	Company data

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)	
Value	Source
No data available	Company data

benzyl alcohol	
Value	Source
No data available	Company data

[3-(2,3-Epoxypropoxy)propyl]trimethoxysilane	
Value	Source
slight	Company data

## 12.5 Results of PBT and vPvB assessment

### Results of PBT characteristics determination

#### Hazardous ingredients

portland cement	
Value	Source
Not applicable.	Company data

Reaction product: bisphenol F-epichlorohydrin resins with average molecular weight <= 700	
Value	Source
Not applicable.	Company data

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)	
Value	Source
Not applicable.	Company data

benzyl alcohol	
Value	Source
Not applicable.	Company data

[3-(2,3-Epoxypropoxy)propyl]trimethoxysilane	
Value	Source

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This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

Company data

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods




Disposal considerations

Do not allow to enter into surface water or drains.  
Dispose of waste according to applicable legislation.  
Empty remaining contents.  
Empty packaging: Where possible recycling is preferred to disposal or incineration.  
Product: Can be disposed of as a solid waste or burned in a suitable installation subject to local regulations.

Waste Code

According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.  
The following Waste Codes are only suggestions:  
Product (Mortar and Curing agent)  
200127 - paint, inks, adhesives and resins containing dangerous substances  
080409 - waste adhesives and sealants containing organic solvents or other dangerous substances  
.  
cured material  
200000 - MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS  
Completely emptied containers are to be recycled as discarded metal or to be reconditioned.

## SECTION 14: Transport information

	Land transport ADR/RID	Marine transport IMDG	Air transport ICAO/IATA
14.1 UN-No	3077	3077	3077
14.2 Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.	Environmentally hazardous substance, solid, n.o.s.
UN proper shipping name		ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.	Environmentally hazardous substance, solid, n.o.s.
14.3 Transport hazard class(es)	9	9	9
14.4 Packaging group	III	III	III
14.5 Environmental hazards	U - Environmentally hazardous	U - marine pollutant	U - Environmentally hazardous
Labels			
Risk No.	90		

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	Land transport ADR/RID	Marine transport IMDG	Air transport ICAO/IATA
Category	3		
Classification Code	M7		
Tunnel restriction code	-		
EmS		F-A;S-F	
Stowage category		A	

## 14.6 Special precautions for user

Precautions No special measures are necessary.

## 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to not applicable  
Annex II of MARPOL and the IBC  
Code

## SECTION 15: Regulatory information

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

Decopaint regulation not relevant  
Carcinogenic hazardous substance as per Annex II GefStoffV No  
Restriction of occupation. Do not use for private purposes (household).  
Reserved for industrial and professional use.

### 15.2 Chemical safety assessment

Safety assessment For this preparation a chemical safety assessment has been carried out. This safety data sheet contains more than one ES in an integrated form. Contents of the exposure scenarios have been included into sections 1.2, 8, 9, 12, 15 and 16 of this safety data sheet.  
Additional regulations This Safety Data Sheet is prepared according to Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

## SECTION 16: Other information

Relevant H-phrases  
H302: Harmful if swallowed.  
H312: Harmful in contact with skin.  
H315: Causes skin irritation.  
H317: May cause an allergic skin reaction.  
H318: Causes serious eye damage.  
H319: Causes serious eye irritation.  
H332: Harmful if inhaled.  
H335: May cause respiratory irritation.

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Wording of the hazard classes

H411: Toxic to aquatic life with long lasting effects.

Skin Irrit.: Skin irritation  
Eye Dam.: Serious eye damage  
STOT SE: Specific target organ toxicity - single exposure  
Eye Irrit.: Serious eye irritation  
Skin Sens.: Skin sensitization  
Aquatic Chronic: Hazardous to the aquatic environment  
Acute Tox.: Acute toxicity

Classification for mixtures and used evaluation method according to regulation (EC) 1272/2008 [CLP]

Classification	Evaluation
Skin Irrit. 2; H315	Calculated
Eye Dam. 1; H318	Calculated
Skin Sens. 1; H317	Calculated
Aquatic Chronic 2; H411	Calculated

Recommended restrictions

None under normal processing. Observe technical data sheet.

Modifications of the previous version are denoted with an asterisk (\*).

This information is provided in accordance with the current status of our knowledge and experience. The Safety Data Sheet describes products with a view to relevant safety requirements. This information does not constitute a warranty of properties, features or qualities.

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

### **1.1 Product identifier**

Commercial Product Name                      **FIS EB II Component B (Curing agent)**

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

Relevant identified uses                      composite mortar

Recommended restrictions                      None under normal processing. Observe technical data sheet.

### **1.3 Details of the supplier of the safety data sheet**

Company designation                      fischerwerke GmbH & Co. KG  
Klaus-Fischer-Straße 1  
D-72178 Waldachtal  
Telephone: +49(0)7443 12-0  
FAX: +49(0)7443 12-4222  
Email: info-sdb@fischer.de  
Internet: www.fischer.de

Marketer                      Mrs Mirka Valovicova, fischer Fixing (UK) Ltd  
Hithercroft Road  
Wallingford, Oxfordshire, OX10 9AT  
Telephone: +44 01491 827 920  
FAX: -  
Email: technical@fischer.co.uk  
Internet: www.fischer.co.uk

### **1.4 Emergency telephone number**

Emergency telephone number                      +49(0)6132-84463 (24h)

## **SECTION 2: Hazards identification**

### **2.1 Classification of the substance or mixture**

Classification according to Regulation (EC) No. 1272/2008                      Skin Corr. 1B; H314 Skin Sens. 1; H317 Aquatic Chronic 3; H412

### **2.2 Label elements**

Hazard pictogram



GHS05



GHS07

Signal word

Danger

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Hazardous component(s) to be indicated on label	portland cement , 3-aminomethyl-3,5,5-trimethylcyclohexylamine , m-phenylenebis(methylamine) , Phenol, styrenated
H-statement(s)	H314: Causes severe skin burns and eye damage. H317: May cause an allergic skin reaction. H412: Harmful to aquatic life with long lasting effects.
P-statement(s)	P260: Do not breathe dust/fume/gas/mist/vapours/spray. P280: Wear protective gloves/protective clothing/eye protection/face protection. P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water (or shower). P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

## 2.3 Other hazards

Health hazard	No information available.
Particular information pertaining specific risk for human / environment	No information available.
Indication of danger	No information available.
Hazard precautions	No information available.

## SECTION 3: Composition/information on ingredients

### Hazardous ingredients

Ingredient	CAS No.	Classification (EC) 1272/2008	Concentration
portland cement	CAS No.: 65997-15-1 EC-No.: 266-043-4 REACH No.: The substance does not require registration according to Regulation (EC) No 1907/2006 [REACH].	Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT SE 3; H335	>= 10.0 - 20.0 %
3-aminomethyl-3,5,5-trimethylcyclohexylamine	CAS No.: 2855-13-2 EC-No.: 220-666-8 Index-No.: 612-067-00-9 REACH No.: 01-2119514687-32	Acute Tox. 4 ; H312 Acute Tox. 4 ; H302 Skin Corr. 1B; H314 Skin Sens. 1; H317 Aquatic Chronic 3; H412	>= 5.0 - 25.0 %
m-phenylenebis(methylamine)	CAS No.: 1477-55-0 EC-No.: 216-032-5 REACH No.: 01-2119480150-50	Acute Tox. 4; H302 Acute Tox. 4; H332 Skin Corr. 1B; H314 Skin Sens. 1; H317 Aquatic Chronic 3; H412	>= 5.0 - 25.0 %
aliphatic polyamine	REACH No.: The substance does not require registration according to Regulation (EC) No 1907/2006 [REACH].	Aquatic Chronic 4; H413	2.5 - 10.0 % by weight
2,4,6-tris(dimethylaminomethyl)phenol	CAS No.: 90-72-2 EC-No.: 202-013-9 Index-No.: 603-069-00-0 REACH No.: 01-2119560597-27	Acute Tox. 4 ; H302 Eye Irrit. 2; H319 Skin Irrit. 2; H315	2.5 - 10.0 % by weight
Phenol, styrenated	CAS No.: 61788-44-1 EC-No.: 262-975-0 REACH No.: 01-2119980970-27	Skin Irrit. 2; H315 Skin Sens. 1; H317 Aquatic Chronic 2; H411	>= 2.5 - 10.0 %



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## **SECTION 4: First aid measures**

### **4.1 Description of first aid measures**

General advice	Take off immediately all contaminated clothing. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Wear personal protection equipment (refer to section 8).
If inhaled	Provide fresh air. In case of respiratory tract irritation, consult a physician.
In case of skin contact	After contact with skin, wash immediately with plenty of water and soap. Do NOT use solvents or thinners.
In case of eye contact	Remove contact lenses. In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.
If swallowed	If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Let water be drunken in little sips (dilution effect). Do NOT induce vomiting.

### **4.2 Most important symptoms and effects, both acute and delayed**

Symptoms	No information available.
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### **4.3 Indication of any immediate medical attention and special treatment needed**

Immediate medical attention	If unconscious place in recovery position and seek medical advice.
Special medical treatment	Treat symptomatically.

## **SECTION 5: Firefighting measures**

### **5.1 Extinguishing media**

Suitable extinguishing media	spray mist, (water), Water spray jet, alcohol resistant foam, carbon dioxide, Extinguishing powder
Extinguishing media which must not be used for safety reasons	Full water jet

### **5.2 Special hazards arising from the substance or mixture**

Special exposure hazards arising from the substance or preparation itself, its combustion products, or released gases	Heating or fire can release toxic gas. Fight fire with normal precautions from a reasonable distance.
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### 5.3 Advice for firefighters

Special protective equipment for firefighting

In case of fire: Wear self-contained breathing apparatus.  
For the protection against direct skin contact, body protective clothing is essential (in addition to the usual working clothes).

Additional information on fire-fighting

Suppress (knock down) gases/vapours/mists with a water spray jet.  
Do not allow water used to extinguish fire to enter drains, ground or waterways.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions

For non-emergency personnel  
Accidental release measures:  
Wear personal protection equipment (refer to section 8).  
Remove all sources of ignition.  
Ensure adequate ventilation, especially in confined areas.

### 6.2 Environmental precautions

Environmental precautions

The product should not be allowed to enter drains, water courses or the soil.  
Prevent spread over a wide area (e.g. by containment or oil barriers).

### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up

Allow stiffening. Take up mechanically.  
Treat the recovered material as prescribed in the section on waste disposal.

### 6.4 Reference to other sections

Reference to other sections

Reference to other sections : 7 / 8 / 13

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling

Keep container tightly closed.  
Hygiene measures: When using do not eat, drink or smoke. Wash hands before breaks and after work.  
Take off contaminated clothing and wash it before reuse.

Advice on protection against fire and explosion

No special measures are necessary.

### 7.2 Conditions for safe storage, including any incompatibilities

Storage space and container requirements

Keep/Store only in original container.  
Keep container tightly closed and dry.

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Store in accordance with local regulations.

Unsuitable materials for containers Keep only in original container.

Hints on storage assembly Keep away from food, drink and animal feedingstuffs.

German storage class 8 A

Recommended storage temperature +5 - 25 °C

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

portland cement

Great Britain

Long-term exposure value/ mg/m3	Remarks	Source
10	inhalable dust	EH40/2005 Workplace exposure limits (2011)
4	respirable dust	EH40/2005 Workplace exposure limits (2011)

### 8.2 Exposure controls

Respiratory protection In case of inadequate ventilation wear respiratory protection.

Hand protection May cause sensitization of susceptible persons by skin contact. Avoid contact with eyes and skin.

Suitable material Protective gloves complying with EN 374. Butyl caoutchouc (butyl rubber), NBR (Nitrile rubber)

Unsuitable material PVC or rubber gloves are not recommended.

Material thickness adjust to application and duration of use

Break through time > 120 min

Evaluation -

Remarks Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

Note Replace when worn.

Eye protection Wear closely fitting protective glasses in case of splashes. Safety glasses with side-shields conforming to EN166

Skin and body protection Long sleeved clothing

Note Choose body protection according to the amount and concentration of the dangerous substance at the work place.

General protective and hygiene measures Do not eat, drink or smoke when using this product. Avoid contact with the skin and the eyes.

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	Wash hands and face before breaks and after work and take a shower if necessary. Keep away from food, drink and animal feedingstuffs. Use protective skin cream before handling the product.
Information on environmental protection regulations	No special environmental measures are necessary. see section 6/7
Engineering measures	Provide adequate ventilation.

## **SECTION 9: Physical and chemical properties**

### **9.1 Information on basic physical and chemical properties**

Form	Paste
Colour	black
Odour	characteristic
Odour threshold	not determined
Melting point [°C] / Freezing point [°C]	No data available
Boiling point [°C]	No data available
Flash point [°C]	> 100
Evaporation rate [kg/(s*m²)]	No data available
Flammability (solid, gas)	No data available
Explosion limits [Vol-% ]	
Lower limit	No data available
Upper limit	No data available
Vapour pressure [kPa]	No data available
Vapour density	No data available
Density [g/cm³]	1,7 - 1,8
Relative density	No data available
Solubility	No data available
Water solubility [g/l]	No data available
Solubility [g/l]	No data available
Partition coefficient n-octanol /water (log P O/W)	No data available
Autoinflammability	not auto-flammable
Decomposition temperature [°C]	No data available
Viscosity, dynamic [kg/(m*s)]	150 - 220

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Explosive properties not explosive.

Oxidising properties No

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Reactivity No hazardous reaction when handled and stored according to provisions.  
No decomposition if stored and applied as directed.

### 10.2 Chemical stability

Chemical stability Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7.

### 10.3 Possibility of hazardous reactions

Hazardous reactions No hazardous reaction when handled and stored according to provisions.

### 10.4 Conditions to avoid

Conditions to avoid The mixture is chemically stable under recommended conditions of storage, use and temperature.

### 10.5 Incompatible materials

Materials to avoid Strong acids and oxidizing agents

### 10.6 Hazardous decomposition products

Hazardous decomposition products No known hazardous decomposition products.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Oral toxicity [mg/kg]

##### Hazardous ingredients

portland cement			
Value	Test criterion	Remarks	Source
> 2000	LD50	literature value	Company data

3-aminomethyl-3,5,5-trimethylcyclohexylamine			
Value	Test criterion	Test species	Source
1030	LD50	rat	Company data

m-phenylenebis(methylamine)			
Value	Test criterion	Test species	Source
930	LD50	Rat	Company data

aliphatic polyamine			
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Value	Test criterion	Test species	Source
> 5000	LD50	rat	Company data

2,4,6-tris(dimethylaminomethyl)phenol			
Value	Test criterion	Test species	Source
2169	LD50	Rat	Company data

Phenol, styrenated				
Value	Test criterion	Test species	Remarks	Source
> 2000	LD50	Rat	OECD 423	Company data

**Dermal toxicity [mg/kg]****Hazardous ingredients**

portland cement				
Value	Test criterion	Test species	Remarks	Source
> 2000	LD50	rabbit	Limit test 2000 mg/kg	Company data

3-aminomethyl-3,5,5-trimethylcyclohexylamine			
Value	Test criterion	Test species	Source
> 2000	LD50	Rabbit	Company data

m-phenylenebis(methylamine)			
Value	Test criterion	Test species	Source
2000	LD50	Rabbit	Company data

aliphatic polyamine			
Value	Test criterion	Test species	Source
> 2000	LD50	rabbit	Company data

2,4,6-tris(dimethylaminomethyl)phenol			
Value	Test criterion	Test species	Source
> 1242	LD50	rabbit	Company data

Phenol, styrenated				
Value	Test criterion	Test species	Remarks	Source
> 2000	LD50	rat	OECD 402	Company data

**Inhalative toxicity [mg/l]****Hazardous ingredients**

portland cement				
Value	Test criterion	Test species	Note	Source
> 5	LC50	rat	Limit Test 5 g/m <sup>3</sup>	Company data

3-aminomethyl-3,5,5-trimethylcyclohexylamine				
Value	Test criterion	Test species	Note	Source
> 5,01	LC50	Rat	OECD 403	Verordnung (EG) Nr. 1272/2008

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				des Europäis- chen Parlaments und des Rat...
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m-phenylenebis(methylamine)			
Value	Test criterion	Test species	Source
2,4	LC50	Rat	Company data

aliphatic polyamine	
Value	Source
No data available	Company data

2,4,6-tris(dimethylaminomethyl)phenol			
Value	Test criterion	Test species	Source
> 1673	LC50	rat	Company data

Phenol, styrenated			
Value	Test criterion	Test species	Source
4,9	LC0	rat	Company data

**LC50 Inhalation 4h for vapours [mg/l]****Hazardous ingredients**

m-phenylenebis(methylamine)		
Value	Test criterion	Source
2,4	LC50:	Company data

aliphatic polyamine		
Value	Note	Source
>20	Based on available data, the classification criteria are not met.	Company data

**LC50 Inhalation 4h for dusts and sprays [mg/l]****Hazardous ingredients**

m-phenylenebis(methylamine)		
Value	Test criterion	Source
2,4	LC50:	Company data

aliphatic polyamine		
Value	Note	Source
>5	Based on available data, the classification criteria are not met.	Company data

Phenol, styrenated			
Value	Test criterion	Test species	Source
>4,92	LC50:	Rat	Company data

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**Irritant effect on skin****Hazardous ingredients**

<b>portland cement</b>	
<b>Value</b>	<b>Source</b>
Irritant	Company data

<b>3-aminomethyl-3,5,5-trimethylcyclohexylamine</b>	
<b>Value</b>	<b>Source</b>
Acute dermal irritation/corrosion	Verordnung (EG) Nr. 1272/2008 des Europäischen Parlaments und des Rat...

<b>m-phenylenebis(methylamine)</b>	
<b>Value</b>	<b>Source</b>
Severe skin irritation	Verordnung (EG) Nr. 1272/2008 des Europäischen Parlaments und des Rat...

<b>aliphatic polyamine</b>	
<b>Value</b>	<b>Source</b>
Causes mild skin irritation.	Company data

<b>2,4,6-tris(dimethylaminomethyl)phenol</b>	
<b>Value</b>	<b>Source</b>
Severe skin irritation.	Company data

<b>Phenol, styrenated</b>			
<b>Value</b>	<b>Measuring method</b>	<b>Test species</b>	<b>Source</b>
irritating	OECD 404	rabbit	Company data

**Irritant effect on eyes****Hazardous ingredients**

<b>portland cement</b>	
<b>Value</b>	<b>Source</b>
Causes serious eye damage.	Company data

<b>3-aminomethyl-3,5,5-trimethylcyclohexylamine</b>	
<b>Value</b>	<b>Source</b>
Acute eye irritation/corrosion	Verordnung (EG) Nr. 1272/2008 des Europäischen Parlaments und des Rat...

<b>m-phenylenebis(methylamine)</b>	
<b>Value</b>	<b>Source</b>
Severe eye irritation	Verordnung (EG) Nr. 1272/2008 des Europäischen Parlaments und des Rat...

<b>aliphatic polyamine</b>	
<b>Value</b>	<b>Source</b>
Causes eye irritation.	Company data



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2,4,6-tris(dimethylaminomethyl)phenol	
Value	Source
Severe eye irritation	Company data

Phenol, styrenated			
Value	Measuring method	Test species	Source
Not an irritant.	OECD 405	rabbit	Company data

## Irritant effect on the respiratory tract

### Hazardous ingredients

portland cement	
Value	Source
Based on available data, the classification criteria are not met.	Company data

m-phenylenebis(methylamine)	
Value	Source
Inhalation of vapours in high concentration may cause irritation of respiratory system.	Company data

## Sensitization

### Hazardous ingredients

portland cement	
Value	Source
No sensitization responses were observed.	Company data

3-aminomethyl-3,5,5-trimethylcyclohexylamine	
Value	Source
Respiratory or skin sensitisation	Verordnung (EG) Nr. 1272/2008 des Europäischen Parlaments und des Rat...

m-phenylenebis(methylamine)	
Value	Source
Skin sensitizing.	Company data

aliphatic polyamine	
Value	Source
No data available	Company data

2,4,6-tris(dimethylaminomethyl)phenol	
Value	Source
The results of a test on guinea pigs showed this substance to be a weak skin sensitizer.	Company data

Phenol, styrenated		
Value	Measuring method	Source
Skin sensitizing.	OECD 429	Company data

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## Carcinogenic effects

### Hazardous ingredients

portland cement	
Value	Source
Based on available data, the classification criteria are not met.	Company data

3-aminomethyl-3,5,5-trimethylcyclohexylamine	
Value	Source
Based on available data, the classification criteria are not met.	Verordnung (EG) Nr. 1272/2008 des Europäischen Parlaments und des Rat...

m-phenylenebis(methylamine)	
Value	Source
No data available	Company data

aliphatic polyamine	
Value	Source
No data available	Company data

2,4,6-tris(dimethylaminomethyl)phenol	
Value	Source
No data available	Company data

Phenol, styrenated	
Value	Source
Based on available data, the classification criteria are not met.	Company data

## Mutagenicity

### Hazardous ingredients

portland cement	
Value	Source
Based on available data, the classification criteria are not met.	Company data

3-aminomethyl-3,5,5-trimethylcyclohexylamine	
Value	Source
negative negative	Verordnung (EG) Nr. 1272/2008 des Europäischen Parlaments und des Rat...

m-phenylenebis(methylamine)	
Value	Source
No data available	Company data

aliphatic polyamine	
Value	Source

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No data available	Company data
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2,4,6-tris(dimethylaminomethyl)phenol	
Value	Source
Not applicable.	Company data

Phenol, styrenated	
Value	Source
Ames test negative.	Company data

**Reproduction toxicity****Hazardous ingredients**

portland cement	
Value	Source
Based on available data, the classification criteria are not met.	Company data

3-aminomethyl-3,5,5-trimethylcyclohexylamine			
Value	Measuring method	Exposure duration	Source
> 250 mg/kg NOAL	OECD 414	9- 16 d	Verordnung (EG) Nr. 1272/2008 des Europäischen Parlaments und des Rat...

m-phenylenebis(methylamine)	
Value	Source
No data available	Company data

aliphatic polyamine	
Value	Source
No data available	Company data

2,4,6-tris(dimethylaminomethyl)phenol	
Value	Source
No data available	Company data

Phenol, styrenated	
Value	Source
Based on available data, the classification criteria are not met.	Company data

**Caustic effect****Hazardous ingredients**

portland cement	
Value	Source
Based on available data, the classification criteria are not met.	Company data

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<b>m-phenylenebis(methylamine)</b>	
<b>Value</b>	<b>Source</b>
Causes skin and eye burns.	Verordnung (EG) Nr. 1272/2008 des Europäischen Parlaments und des Rat...

<b>aliphatic polyamine</b>	
<b>Value</b>	<b>Source</b>
No data available	Company data

<b>2,4,6-tris(dimethylaminomethyl)phenol</b>	
<b>Value</b>	<b>Source</b>
No data available	Company data

<b>Phenol, styrenated</b>	
<b>Value</b>	<b>Source</b>
Based on available data, the classification criteria are not met.	Company data

**Specific target organ toxicity (single exposure) [mg/kg]****Hazardous ingredients**

<b>portland cement</b>	
<b>Specific effects</b>	<b>Source</b>
Irritating to respiratory system. (dust)	Company data

<b>3-aminomethyl-3,5,5-trimethylcyclohexylamine</b>	
<b>Remarks</b>	<b>Source</b>
*1)	Verordnung (EG) Nr. 1272/2008 des Europäischen Parlaments und des Rat...

\*1): Based on available data, the classification criteria are not met.

<b>m-phenylenebis(methylamine)</b>	
<b>Remarks</b>	<b>Source</b>
No data available	Company data

<b>aliphatic polyamine</b>	
<b>Route of exposure</b>	<b>Source</b>
Keine Daten verfügbar	Company data

<b>2,4,6-tris(dimethylaminomethyl)phenol</b>		
<b>Specific effects</b>	<b>Organs affected</b>	<b>Source</b>
Eye disease, Rash, Allergies, Neurological disorders	Eyes, Skin contact, Central nervous system	Company data

<b>Phenol, styrenated</b>	
<b>Remarks</b>	<b>Source</b>
*1)	Company data

\*1): Based on available data, the classification criteria are not met.

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## Specific target organ toxicity (repeated exposure) [mg/kg]

### Hazardous ingredients

portland cement	
Remarks	Source
*1)	Company data

\*1): Based on available data, the classification criteria are not met.

3-aminomethyl-3,5,5-trimethylcyclohexylamine		
Route of exposure	Remarks	Source
oral	NOAL 60 mg/kg	Verordnung (EG) Nr. 1272/2008 des Europäischen Parlaments und des Rat...

m-phenylenebis(methylamine)	
Remarks	Source
No data available	Company data

aliphatic polyamine	
Route of exposure	Source
Keine Daten verfügbar	Company data

2,4,6-tris(dimethylaminomethyl)phenol	
Remarks	Source
No data available	Company data

Phenol, styrenated	
Remarks	Source
*1)	Company data

\*1): Based on available data, the classification criteria are not met.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Toxicity to fish [mg/l]

##### Hazardous ingredients

portland cement		
Value	Test criterion	Source
> 100	LC50	Company data

3-aminomethyl-3,5,5-trimethylcyclohexylamine			
Value	Test criterion	Exposure duration	Source
110	LC50	96 h	Company data

m-phenylenebis(methylamine)			
Value	Test criterion	Exposure duration	Source
87,6	LC50	96 h	Company data

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aliphatic polyamine	
Value	Source
No data available	Company data

2,4,6-tris(dimethylaminomethyl)phenol				
Value	Test criterion	Test species	Exposure duration	Source
222	LC50	Oncorhynchus mykiss (Rainbow trout)	24 h	Company data
249	LC50	Cyprinus carpio (Carp)	24 h	Company data

Phenol, styrenated				
Value	Test criterion	Measuring method	Exposure duration	Source
14,8	LL50:	OECD 203	96 h	Company data

**Toxicity to daphnia [mg/l]  
Hazardous ingredients**

portland cement			
Value	Test criterion	Test species	Source
> 100	LC50	Daphnia magna (Water flea)	Company data

3-aminomethyl-3,5,5-trimethylcyclohexylamine			
Value	Test criterion	Exposure duration	Source
23	EC50	48 h	Company data

m-phenylenebis(methylamine)			
Value	Test criterion	Exposure duration	Source
35,1	EC50	24 h	Company data

aliphatic polyamine	
Value	Source
No data available	Company data

2,4,6-tris(dimethylaminomethyl)phenol			
Value	Test criterion	Exposure duration	Source
718	LC50	96 h	Company data

Phenol, styrenated					
Value	Test criterion	Test species	Exposure duration	Measuring method	Source
< 10	EL50:	Daphnia magna (Big water flea)	48 h	OECD 202	Company data

**Toxicity to algae [mg/l]**

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**Hazardous ingredients**

portland cement		
Value	Test criterion	Source
> 100	EC50	Company data

3-aminomethyl-3,5,5-trimethylcyclohexylamine			
Value	Test criterion	Exposure duration	Source
37	IC50:	72 h	Company data

m-phenylenebis(methylamine)		
Value	Test criterion	Source
33	EC50	Company data

aliphatic polyamine	
Value	Source
No data available	Company data

2,4,6-tris(dimethylaminomethyl)phenol				
Value	Test criterion	Test species	Exposure duration	Source
84	EC50	Scenedesmus subspicatus	72 h	Company data

Phenol, styrenated				
Value	Test criterion	Exposure duration	Measuring method	Source
3,14	ErC50:	72 h	OECD 201	Company data

**Aquatic toxicity [mg/l]****Hazardous ingredients**

aliphatic polyamine	
Value	Source
No data available	Company data

**NOEC (daphnia) [mg/l]****Hazardous ingredients**

Phenol, styrenated				
Value	Test criterion	Test species	Measuring method	Source
0,115	NOEC	Daphnia magna (Big water flea)	OECD 211	Company data

**NOEC (algae) [mg/l]****Hazardous ingredients**

2,4,6-tris(dimethylaminomethyl)phenol				
Value	Test criterion	Test species	Measuring method	Source

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6,25	NOEC	Scenedesmus quadricauda (Green algae)	OECD 201	Verordnung (EG) Nr. 1272/2008 des Europäischen Parlaments und des Rat...
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**12.2 Persistence and degradability****Biodegradability****Hazardous ingredients**

portland cement	
Value	Source
Not applicable. (inorganic)	Company data

m-phenylenebis(methylamine)	
Value	Source
Inherently biodegradable.	Verordnung (EG) Nr. 1272/2008 des Europäischen Parlaments und des Rat...

2,4,6-tris(dimethylaminomethyl)phenol	
Value	Source
Not readily biodegradable.	Company data

Phenol, styrenated	
Value	Source
Not readily biodegradable.	Company data

**12.3 Bioaccumulative potential****Bioaccumulation****Hazardous ingredients**

portland cement	
Value	Source
Not applicable. (inorganic)	Company data

m-phenylenebis(methylamine)		
Value	Remarks	Source
log Pow 0,18	gering	Verordnung (EG) Nr. 1272/2008 des Europäischen Parlaments und des Rat...

2,4,6-tris(dimethylaminomethyl)phenol	
Value	Source
no data available	Company data

**12.4 Mobility in soil****Mobility**



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## Hazardous ingredients

portland cement	
Value	Source
Not applicable. (inorganic)	Company data

m-phenylenebis(methylamine)	
Value	Source
slight	Verordnung (EG) Nr. 1272/2008 des Europäischen Parlaments und des Rat...

2,4,6-tris(dimethylaminomethyl)phenol	
Value	Source
No data available	Company data

## 12.5 Results of PBT and vPvB assessment

### Results of PBT characteristics determination

#### Hazardous ingredients

portland cement	
Value	Source
Not applicable.	Company data

m-phenylenebis(methylamine)	
Value	Source
Not applicable.	Verordnung (EG) Nr. 1272/2008 des Europäischen Parlaments und des Rat...

2,4,6-tris(dimethylaminomethyl)phenol	
Value	Source
Not applicable.	Company data

Phenol, styrenated	
Value	Source
Not applicable.	Company data

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Disposal considerations

Do not allow to enter into surface water or drains.  
Dispose of waste according to applicable legislation.  
Empty remaining contents.  
Empty packaging: Where possible recycling is preferred to disposal or incineration.  
Product: Can be disposed of as a solid waste or burned in a suitable installation subject to local regulations.

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## Waste Code

According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.

The following Waste Codes are only suggestions:

Product (Mortar and Curing agent)

200127 - paint, inks, adhesives and resins containing dangerous substances







080409 - waste adhesives and sealants containing organic solvents or other dangerous substances

cured material

200000 - MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS

Completely emptied containers are to be recycled as discarded metal or to be reconditioned.

## SECTION 14: Transport information

	Land transport ADR/RID	Marine transport IMDG	Air transport ICAO/IATA
14.1 UN-No	3259	3259	3259
14.2 Description of the goods	AMINES, SOLID, CORROSIVE, N.O.S.	AMINES, SOLID, CORROSIVE, N.O.S.	Amines, solid, corrosive, n.o.s.
UN proper shipping name		AMINES, SOLID, CORROSIVE, N.O.S.	Amines, solid, corrosive, n.o.s.
14.3 Transport hazard class(es)	8	8	8
14.4 Packaging group	II	II	II
14.5 Environmental hazards	U - Environmentally hazardous	U - marine pollutant	U - Environmentally hazardous
Labels	8  	8  	8  
Risk No.	80		
Category	2		
Classification Code	C8		
Tunnel restriction code	E		
Danger releasing substance	3-Aminomethyl-3,5,5-trimethylcyclohexylamin	3-aminomethyl-3, 5, 5-trimethylcyclohexylamine	3-aminomethyl-3, 5, 5-trimethylcyclohexylamine
EmS		F-A;S-B	
Stowage category		A	

### 14.6 Special precautions for user

Precautions

No special measures are necessary.

### 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Annex II of MARPOL and the IBC Code not applicable

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## SECTION 15: Regulatory information

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

Decopaint regulation	not relevant
Carcinogenic hazardous substance as per Annex II GefStoffV	No
Restriction of occupation.	Do not use for private purposes (household). Reserved for industrial and professional use.

### 15.2 Chemical safety assessment

Safety assessment	For this preparation a chemical safety assessment has been carried out. This safety data sheet contains more than one ES in an integrated form. Contents of the exposure scenarios have been included into sections 1.2, 8, 9, 12, 15 and 16 of this safety data sheet.
Additional regulations	This Safety Data Sheet is prepared according to Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

## SECTION 16: Other information

Relevant H-phrases	H302: Harmful if swallowed. H312: Harmful in contact with skin. H314: Causes severe skin burns and eye damage. H315: Causes skin irritation. H317: May cause an allergic skin reaction. H318: Causes serious eye damage. H319: Causes serious eye irritation. H332: Harmful if inhaled. H335: May cause respiratory irritation. H411: Toxic to aquatic life with long lasting effects. H412: Harmful to aquatic life with long lasting effects. H413: May cause long lasting harmful effects to aquatic life.
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Wording of the hazard classes	Skin Irrit.: Skin irritation Eye Dam.: Serious eye damage STOT SE: Specific target organ toxicity - single exposure Acute Tox.: Acute toxicity Skin Sens.: Skin sensitization Aquatic Chronic: Hazardous to the aquatic environment Eye Irrit.: Serious eye irritation
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Classification for mixtures and used evaluation method accord-

Classification	Evaluation
Skin Corr. 1B; H314	Calculated
Skin Sens. 1; H317	Calculated

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ing to regulation (EC) 1272/2008  
[CLP]

Classification	Evaluation
Aquatic Chronic 3; H412	Calculated

Recommended restrictions          None under normal processing. Observe technical data sheet.

Modifications of the previous version are denoted with an asterisk (\*).

This information is provided in accordance with the current status of our knowledge and experience. The Safety Data Sheet describes products with a view to relevant safety requirements. This information does not constitute a warranty of properties, features or qualities.