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

1.1 Product identifier
Commercial Product Name: FIS EM Plus 390/585/1500 S – 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: AnchorMark Pty. Ltd.
Unit 1, 61 Waterview Close
Dandenong South VIC 3175, Australia
Telephone: +61 (0) 3 97992096
FAX: +61 (0) 3 97992096
Email: info@anchormark.com.au

1.4 Emergency telephone number
Emergency telephone number: FOR FIRST AID ADVICE CALL A POISONS INFORMATION CENTRE PHONE 13 11 26 - THIS NUMBER IS FOR USE IN AUSTRALIA ONLY

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
Classification according to Regulation (EC) No. 1272/2008:
Skin Corr. 1C; H314 Skin Sens. 1; H317 Repr. 1B; H360F STOT SE 3; H335 Aquatic Chronic 2; H411

2.2 Label elements
Hazard pictogram:
- GHS05
- GHS07
- GHS08
- GHS09

Signal word: Danger
Hazardous component(s) to be indicated on label
reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight <= 700), Portlandzement, reaction product: bisphenol-F-(epichlorhydrin) Epoxy resin (number average molecular weight <= 700), trimethylolpropane triglycidyl ether, [3-(2, 3-epoxypropoxy)propyl]trimethoxysilane

H-statement(s)
H314: Causes severe skin burns and eye damage.
H317: May cause an allergic skin reaction.
H335: May cause respiratory irritation.
H360F: May damage fertility.
H411: Toxic to aquatic life with long lasting effects.

P-statement(s)
P201: Obtain special instructions before use.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/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.
P310: Immediately call a POISON CENTER or doctor/physician.

Further information
Contains epoxy constituents. May produce an allergic reaction.

2.3 Other hazards
Health hazard
None known.

Particular information pertaining specific risk for human / environment
None known.

Indication of danger
None known.

Hazard precautions
None known.

SECTION3: Composition/information on ingredients

Hazardous ingredients

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>GHS Classification</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight &lt;= 700)</td>
<td>Eye Irrit. 2; H319 Skin Irrit. 2; H315 Skin Sens. 1; H317 Aquatic Chronic 2; H411</td>
<td>25.0 – 50.0 % by weight</td>
</tr>
<tr>
<td>portlandcement</td>
<td>Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT SE 3; H335</td>
<td>25.0 – 50.0 % by weight</td>
</tr>
</tbody>
</table>
GHS Safety Data Sheet
Commercial Product Name: FIS EM Plus 390/585/1500 S – Component A (Mortar)
Revision Date: 04.06.2018
Version: 1.0 /en
Replaces version from: -
Print date: 04.06.2018

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>GHS Classification</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>reaction product: bisphe-</td>
<td>Eye Irrit. 2; H319 Skin Irrit. 2;</td>
<td>10.0 – 25.0 % by weight</td>
</tr>
<tr>
<td>nol-F-(epichlorhydrin)</td>
<td>H315 Skin Sens. 1; H317 Aquatic Chronic 2; H411</td>
<td></td>
</tr>
<tr>
<td>Epoxy resin (number average molecular weight &lt;= 700)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>trimethylolpropane triglycidyl ether</td>
<td>Skin Corr. 1C; H314 Skin Sens. 1; H317 Eye Dam. 1; H318 Repr. 1B; H360F Aquatic Chronic 2; H411</td>
<td>2.5 – 10.0 % by weight</td>
</tr>
<tr>
<td>[3-(2,3-epoxypropoxy)propyl]trimoxysilane</td>
<td>Eye Dam. 1; H318</td>
<td>2.5 – 10.0 % by weight</td>
</tr>
</tbody>
</table>

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice
If symptoms persist, call a physician.
Take off all contaminated clothing immediately.
Remove/Take off immediately all contaminated clothing.

If inhaled
Move to fresh air.
If symptoms persist, call a physician.

In case of skin contact
Do not get on skin.
Wash off immediately with soap and plenty of water.
If skin irritation or rash occurs, seek medical advice/attention.

In case of eye contact
In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.

If swallowed
If swallowed, seek medical advice immediately and show this container or label.
Rinse mouth with water. Drink 1 or 2 glasses of water.
Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms
None known.

4.3 Indication of any immediate medical attention and special treatment needed

Immediate medical attention
No data available

Special medical treatment
No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
Dry powder
Foam
GHS Safety Data Sheet
Commercial Product Name: FIS EM Plus 390/585/1500 S – Component A (Mortar)
Revision Date: 04.06.2018
Version: 1.0 /en

Replaces version from: -
Print date: 04.06.2018

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
Hazardous decomposition products formed under fire conditions.
Sulphur oxides
Nitrogen oxides (NOx)
Carbon oxides

5.3 Advice for firefighters
Special protective equipment for firefighting
In the event of fire, wear self-contained breathing apparatus.
In the event of fire and/or explosion do not breathe fumes.
Additional information on firefighting
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

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

6.3 Methods and material for containment and cleaning up
Methods for cleaning up
Use mechanical handling equipment.
Dispose of contents/container in accordance with local regulation.

6.4 Reference to other sections
Reference to other sections
See chapter: 8/13

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Advice on safe handling
None under normal processing.
Precautions
Observe label precautions.
Advice on protection against fire and explosion
not required under normal use

7.2 Conditions for safe storage, including any incompatibilities
Storage space and container requirements
Store in original container.
Keep container tightly closed.
Store in accordance with local regulations.
Hints on storage assembly

Do not store near acids.
Keep away from oxidising agents, strongly acid or alkaline materials, as well as of amines, alcohols and water.

Storage specifications

Keep container tightly closed in a dry and well-ventilated place.
Protect from sunlight and store in well-ventilated place.

7.3 Specific end use(s)

Specific use(s) = composite mortar
Further information: see technical data sheet.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

8.2 Exposure controls

Respiratory protection
No personal respiratory protective equipment normally required.
In case of inadequate ventilation wear respiratory protection.

Hand protection

Suitable material: butyl-rubber, Fluorinated rubber, Nitrile rubber
Break through time: > 120 min
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). Protective gloves complying with EN 374.

Reference substance: Replace when worn.

Eye protection
Safety glasses

Skin and body protection
Wear suitable protective equipment.

General protective and hygiene measures
Avoid contact with the skin and the eyes.
Smoking, eating and drinking should be prohibited in the application area.
Wash hands before breaks and immediately after handling the product.
Keep away from food, drink and animal feedingstuffs.
Use protective skin cream before handling the product.

Information on environmental protection regulations
No special environmental precautions required.
SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form: paste
Colour: white
Odour: characteristic
pH: not determined
Melting point [°C] / Freezing point [°C]: not determined
Boiling point [°C]: not determined
Flash point [°C]: > 100
Evaporation rate [kg/(s*m²)]: No data available
Flammability (solid, gas): No data available
Explosion limits [Vol-% ]
  Lower limit: not determined
  Upper limit: not determined
Vapour pressure [kPa]: No data available
Density [g/cm³]: 1.5 – 1.6
  Temperature: 20 °C
Water solubility [g/l]: not determined
Partition coefficient n-octanol / water (log P O/W): not determined
Autoignition temperature [°C]: not determined
Autoinflammability: not auto-flammable
Decomposition temperature [°C]: not determined
Viscosity, dynamic [kg/(m*s)]: 90 – 130
  Temperature: 20 °C
Risk of explosion: Not explosive

9.2 Other information
Ignition temperature [°C]: not determined
Oxidizing properties: no
SECTION 10: Stability and Reactivity

10.1 Reactivity
Thermal decomposition  No decomposition if stored and applied as directed.

10.2 Chemical stability
Chemical stability  Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
Hazardous reactions  No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid
Conditions to avoid  No dangerous reaction known under conditions of normal use.

10.5 Incompatible materials
Materials to avoid  Strong acids and oxidizing agents

10.6 Hazardous decomposition products
Hazardous decomposition products  None reasonably foreseeable.

SECTION 11: Toxicological Information

11.1 Information on toxicological effects
Hazardous ingredients

epoxy resin (number average molecular weight LE. 700), reaction product: bisphenol-A-(epichlorhydrin)

<table>
<thead>
<tr>
<th>Oral toxicity [mg/kg]</th>
<th>Test criterion</th>
<th>Test species</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>30000</td>
<td>LD50</td>
<td>rat</td>
<td>100</td>
</tr>
<tr>
<td>Source: 100 - Company data</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Dermal toxicity [mg/kg]</th>
<th>Test criterion</th>
<th>Test species</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt; 2000</td>
<td>LD50</td>
<td>rat</td>
<td>100</td>
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<tr>
<td>Source: 100 - Company data</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Inhalative toxicity [mg/l]</th>
<th>Test criterion</th>
<th>Test species</th>
<th>Exposure duration</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>0,000008</td>
<td>LC0</td>
<td>rat</td>
<td>5 h</td>
<td>100</td>
</tr>
<tr>
<td>Source: 100 - Company data</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Specific target organ toxicity (single exposure) [mg/kg]</th>
<th>Remarks</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Not applicable.</td>
<td>100</td>
</tr>
<tr>
<td>Source: 100 - Company data</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Commercial Product Name:
FIS EM Plus 390/585/1500 S – Component A (Mortar)

- **Revision Date:** 04.06.2018
- **Version:** 1.0 /en
- **Print date:** 04.06.2018

---

### Specific Target Organ Toxicity (Repeated Exposure) [mg/kg]

<table>
<thead>
<tr>
<th>Remarks</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not applicable.</td>
<td>100</td>
</tr>
</tbody>
</table>

Source: 100 - Company data

### Portlandcement

- **Oral Toxicity [mg/kg]**
<table>
<thead>
<tr>
<th>Test criterion</th>
<th>Remarks</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt; 2000</td>
<td>LD50</td>
<td>literature value</td>
</tr>
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</table>

Source: 100 - Company data

- **Dermal Toxicity [mg/kg]**
<table>
<thead>
<tr>
<th>Test criterion</th>
<th>Test species</th>
<th>Remarks</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt; 2000</td>
<td>LD50</td>
<td>rabbit</td>
<td>Limit test 2000 mg/kg</td>
</tr>
</tbody>
</table>

Source: 100 - Company data

- **Inhalative Toxicity [mg/l]**
<table>
<thead>
<tr>
<th>Test criterion</th>
<th>Test species</th>
<th>Note</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt; 5</td>
<td>LC50</td>
<td>rat</td>
<td>Limit Test 5 g/m³</td>
</tr>
</tbody>
</table>

Source: 100 - Company data

### Specific Target Organ Toxicity (Single Exposure) [mg/kg]

- **Specific Effects**
<table>
<thead>
<tr>
<th>Specific effects</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Irritating to respiratory system. (dust)</td>
<td>100</td>
</tr>
</tbody>
</table>

Source: 100 - Company data

- **Remarks**
<table>
<thead>
<tr>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

Source: 100 - Company data

### Reaction Product: Bisphenol-F-(Epichlorhydrin) Epoxy Resin (Number Average Molecular Weight <= 700)

- **Oral Toxicity [mg/kg]**
<table>
<thead>
<tr>
<th>Test criterion</th>
<th>Test species</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt; 5000</td>
<td>LD50</td>
<td>rat</td>
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Source: 100 - Company data

- **Dermal Toxicity [mg/kg]**
<table>
<thead>
<tr>
<th>Test criterion</th>
<th>Test species</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt; 2000</td>
<td>LD50</td>
<td>rat</td>
</tr>
</tbody>
</table>

Source: 100 - Company data

- **Inhalative Toxicity [mg/l]**
<table>
<thead>
<tr>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not applicable.</td>
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</tbody>
</table>

Source: 100 - Company data

- **Specific Target Organ Toxicity (Single Exposure) [mg/kg]**
<table>
<thead>
<tr>
<th>Remarks</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not applicable.</td>
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</tbody>
</table>

Source: 100 - Company data
### Trimethylolpropantriglycidether

<table>
<thead>
<tr>
<th>Oral toxicity [mg/kg]</th>
<th>Remarks</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>no data available</td>
<td></td>
<td>100</td>
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Source: 100 - Company data

<table>
<thead>
<tr>
<th>Dermal toxicity [mg/kg]</th>
<th>Remarks</th>
<th>Source</th>
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<tr>
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Source: 100 - Company data

<table>
<thead>
<tr>
<th>Inhalative toxicity [mg/l]</th>
<th>Remarks</th>
<th>Source</th>
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</thead>
<tbody>
<tr>
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<td></td>
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Source: 100 - Company data

<table>
<thead>
<tr>
<th>Specific target organ toxicity (single exposure) [mg/kg]</th>
<th>Remarks</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>No data available</td>
<td></td>
<td>100</td>
</tr>
</tbody>
</table>

Source: 100 - Company data

<table>
<thead>
<tr>
<th>Specific target organ toxicity (repeated exposure) [mg/kg]</th>
<th>Remarks</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>No data available</td>
<td></td>
<td>100</td>
</tr>
</tbody>
</table>

Source: 100 - Company data

### [3-(2,3-epoxypropoxy)propyl]trimethoxysilane

<table>
<thead>
<tr>
<th>Oral toxicity [mg/kg]</th>
<th>Test criterion</th>
<th>Test species</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
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Source: 100 - Company data

<table>
<thead>
<tr>
<th>Dermal toxicity [mg/kg]</th>
<th>Test criterion</th>
<th>Test species</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>4250</td>
<td>LD50</td>
<td>rabbit</td>
<td>100</td>
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Source: 100 - Company data

<table>
<thead>
<tr>
<th>Inhalative toxicity [mg/l]</th>
<th>Test criterion</th>
<th>Test species</th>
<th>Note</th>
<th>Exposure duration</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt; 5,3</td>
<td>LC50</td>
<td>rat</td>
<td>OECD 403</td>
<td>4 h</td>
<td>100</td>
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Source: 100 - Company data

<table>
<thead>
<tr>
<th>Specific target organ toxicity (single exposure) [mg/kg]</th>
<th>Remarks</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not applicable.</td>
<td></td>
<td>100</td>
</tr>
</tbody>
</table>

Source: 100 - Company data
Specific target organ toxicity (repeated exposure) [mg/kg]  | Remarks | Source
---|---|---
| | Not applicable. | 100

Source: 100 - Company data

Irritant effect on skin  | Irritating to skin and mucous membranes
---|---
Irritant effect on eyes  | Risk of serious damage to eyes.
Sensitization  | There is no data available for this product.
Carcinogenic effects  | No data available
Mutagenicity  | There is no data available for this product.
Reproduction toxicity  | There is no data available for this product.
Caustic effect  | Causes severe skin burns and eye damage.

11.2 Additional information
Other information (chapter 11.)  | There is no data available for this product.

SECTION 12: Ecological information

12.1 Toxicity

Hazardous ingredients

epoxy resin (number average molecular weight .LE. 700), reaction product: bisphenol-A-(epichlorhydrin)

| Toxicity to fish [mg/l] | Test criterion | Measuring method | Exposure duration | Source
---|---|---|---|---
| 1,3 | LC50 | OECD Test Guideline 203 | 96 h | 100

Source: 100 - Company data

| Toxicity to daphnia [mg/l] | Test criterion | Test species | Exposure duration | Source
---|---|---|---|---
| 1,8 | EC50 | Daphnia magna (Water flea) | 48 h | 100

Source: 100 - Company data

| Toxicity to algae [mg/l] | Test criterion | Test species | Exposure duration | Source
---|---|---|---|---
| 10 | EC50 | Chlorella pyrenoidosa | 72 h | 100

Source: 100 - Company data

| NOEC (daphnia) [mg/l] | Test species | Measuring method | Exposure duration | Source
---|---|---|---|---
| 0,3 | Daphnia magna (Big water flea) | OECD 211 | 21 d | 100

Source: 100 - Company data
### Portland Cement

<table>
<thead>
<tr>
<th>Toxicity to fish [mg/l]</th>
<th>Test criterion</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt; 100</td>
<td>LC50</td>
<td>100</td>
</tr>
</tbody>
</table>

Source: 100 - Company data

<table>
<thead>
<tr>
<th>Toxicity to daphnia [mg/l]</th>
<th>Test criterion</th>
<th>Test species</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt; 100</td>
<td>LC50</td>
<td>Daphnia magna (Water flea)</td>
<td>100</td>
</tr>
</tbody>
</table>

Source: 100 - Company data

<table>
<thead>
<tr>
<th>Toxicity to algae [mg/l]</th>
<th>Test criterion</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt; 100</td>
<td>EC50</td>
<td>100</td>
</tr>
</tbody>
</table>

Source: 100 - Company data

reaction product: bisphenol-F-(epichlorhydrin) Epoxy resin (number average molecular weight <= 700)

<table>
<thead>
<tr>
<th>Toxicity to fish [mg/l]</th>
<th>Test criterion</th>
<th>Measuring method</th>
<th>Exposure duration</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt; 1</td>
<td>LC50</td>
<td>OECD Test Guideline 203</td>
<td>96 h</td>
<td>100</td>
</tr>
</tbody>
</table>

Source: 100 - Company data

<table>
<thead>
<tr>
<th>Toxicity to daphnia [mg/l]</th>
<th>Test criterion</th>
<th>Test species</th>
<th>Exposure duration</th>
<th>Measuring method</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt; 1</td>
<td>EC50</td>
<td>Daphnia magna (Water flea)</td>
<td>48 h</td>
<td>OECD Test Guideline 202</td>
<td>100</td>
</tr>
</tbody>
</table>

Source: 100 - Company data

<table>
<thead>
<tr>
<th>Toxicity to algae [mg/l]</th>
<th>Test criterion</th>
<th>Exposure duration</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt; 1</td>
<td>EC50</td>
<td>72 h</td>
<td>100</td>
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Source: 100 - Company data

<table>
<thead>
<tr>
<th>NOEC (daphnia) [mg/l]</th>
<th>Test species</th>
<th>Measuring method</th>
<th>Exposure duration</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>0,3</td>
<td>Daphnia magna (Big water flea)</td>
<td>OECD 211</td>
<td>21 d</td>
<td>100</td>
</tr>
</tbody>
</table>

Source: 100 - Company data

### Trimethylolpropantriglycidether

<table>
<thead>
<tr>
<th>Toxicity to fish [mg/l]</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>No data available</td>
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</tbody>
</table>

Source: 100 - Company data

<table>
<thead>
<tr>
<th>Toxicity to daphnia [mg/l]</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>No data available</td>
<td>100</td>
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</tbody>
</table>

Source: 100 - Company data

<table>
<thead>
<tr>
<th>Toxicity to algae [mg/l]</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>No data available</td>
<td>100</td>
</tr>
</tbody>
</table>

Source: 100 - Company data
12.2 Persistence and degradability

Elimination and distribution There is no data available for this product.
mechanisms

Elimination in purification plant There is no data available for this product.

Biodegradability There is no data available for this product.

12.3 Bioaccumulative potential

Bioaccumulation There is no data available for this product.

Bioconcentration factor (BCF) There is no data available for this product.

12.4 Mobility in soil

Distribution in the environment There is no data available for this product.

Mobility There is no data available for this product.

12.5 Results of PBT and vPvB assessment

Results of PBT characteristics determination This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).

12.6 Other adverse effects

Further information on ecology No information on ecology is available.
SECTION 13: Disposal considerations

13.1 Waste treatment methods

Disposal considerations: Dispose of as hazardous waste in compliance with local and national regulations.

Waste Code: Product 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

Uncleaned empty packaging: Dispose of as unused product. Do not flush into surface water or sanitary sewer system.

SECTION 14: Transport information

<table>
<thead>
<tr>
<th>14.1 UN-No</th>
<th>Land transport ADR/RID</th>
<th>Marine transport IMDG</th>
<th>Air transport ICAO/IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>1759</td>
<td>1759</td>
<td>1759</td>
<td></td>
</tr>
</tbody>
</table>

| 14.2 Description of the goods | CORROSIVE SOLID, N.O.S. | CORROSIVE SOLID, N.O.S. | Atzender Feststoff, n.a.g. |
| 14.2 UN proper shipping name | CORROSIVE SOLID, N.O.S. | Corrosive solid, n.o.s. |

| 14.3 Transport hazard class(es) | 8 | 8 | 8 |
| 14.4 Packaging group | III | III | III |

| 14.5 Environmental hazards | U - Environmentally hazardous | U - marine pollutant | U - Environmentally hazardous |
| Labels | 8 | 8 | 8 |

| Risk No. | 80 |
| Category | 3 |
| Classification Code | C10 |
| Tunnel restriction code | E |
| Danger releasing substance | trimethylolpropane triglycidyl ether | trimethylolpropane triglycidyl ether | trimethylolpropane triglycidyl ether |
| EmS | F-A;S-B |
| Stowage category | A |

14.6 Special precautions for user

Precautions: not required under normal use

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
SECTION 15: Regulatory information

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

Restriction of occupation. Do not use for private purposes (household).

15.2 Chemical safety assessment

Safety assessment Not relevant. Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Relevant H-phrases

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.
H335: May cause respiratory irritation.
H360F: May damage fertility.
H411: Toxic to aquatic life with long lasting effects.

Wording of the hazard classes

Skin Corr.: Skin corrosion
Skin Sens.: Skin sensitization
Repr.: Reproductive toxicity
STOT SE: Specific target organ toxicity – single exposure
Aquatic Chronic: Hazardous to the aquatic environment
Eye Irrit.: Serious eye irritation
Skin Irrit.: Skin irritation
Eye Dam.: Serious eye damage

GHS Classification

<table>
<thead>
<tr>
<th>Classification</th>
<th>Evaluation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin Corr. TC; H314</td>
<td>Calculated</td>
</tr>
<tr>
<td>Skin Sens. T; H317</td>
<td>Calculated</td>
</tr>
<tr>
<td>Repr. TB; H360F</td>
<td>Calculated</td>
</tr>
<tr>
<td>STOT SE 3; H335</td>
<td>Calculated</td>
</tr>
<tr>
<td>Aquatic Chronic 2; H411</td>
<td>Calculated</td>
</tr>
</tbody>
</table>
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.
1.1 Product identifier
Commercial Product Name: FIS EM Plus 390/585/1500 S – Component B (Curing agent)

1.2 Relevant identified uses of the substance or mixture and uses advised against
Relevant identified uses: mounting material
Recommended restrictions: None under normal processing. Observe technical data sheet.

1.3 Details of the supplier of the safety data sheet
Company designation: FISCHERWERKE 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: AnchorMark Pty. Ltd.
Unit 1, 61 Waterview Close
Dandenong South VIC 3175, Australia
Telephone: +61 (0) 3 97992096
FAX: +61 (0) 3 97992096
Email: info@anchormark.com.au

1.4 Emergency telephone number
Emergency telephone number: FOR FIRST AID ADVICE CALL A POISONS INFORMATION CENTRE PHONE 13 11 26 - THIS NUMBER IS FOR USE IN AUSTRALIA ONLY

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
Classification according to Regulation (EC) No. 1272/2008
Acute Tox. 4; H332 Skin Corr. 1B; H314 Skin Sens. 1; H317 Repr. 1B; H360F STOT SE 3; H335 Aquatic Chronic 3; H412

2.2 Label elements
Hazard pictogram

<table>
<thead>
<tr>
<th>GHS05</th>
<th>GHS07</th>
<th>GHS08</th>
</tr>
</thead>
<tbody>
<tr>
<td>m-phenylenebis(methylamine), Portlandzement, 2, 4, 6-tris(dimethylaminomethyl)phenol, benzyl alcohol, bisphenol A; 4, 4'-isopropylidenediphenol</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Signal word: Danger

Hazardous component(s) to be indicated on label

H-statement(s): H314: Causes severe skin burns and eye damage.
H317: May cause an allergic skin reaction.
H332: Harmful if inhaled.
H335: May cause respiratory irritation.
H360F: May damage fertility.
H412: Harmful to aquatic life with long lasting effects.

P-statements

P201: Obtain special instructions before use.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/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.
P310: Immediately call a POISON CENTER or doctor/physician.

2.3 Other hazards

Health hazard
None known.

Particular information pertaining specific risk for human / environment
None known.

Indication of danger
None known.

Hazard precautions
None known.

SECTION 3: Composition/information on ingredients

<table>
<thead>
<tr>
<th>Hazardous ingredients</th>
<th>Classification</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>m-phenylenebis(methylamine)</td>
<td>Acute Tox. 4; H302 Acute Tox. 4; H312 Acute Tox. 4; H332 Skin Corr. 1B; H314 Skin Sens. 1; H317 Aquatic Chronic 3; H412</td>
<td>25.0 - 50.0 % by weight</td>
</tr>
<tr>
<td>Portlandzement</td>
<td>Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT SE 3; H335</td>
<td>25.0 - 50.0 % by weight</td>
</tr>
<tr>
<td>aliphatic polyamine</td>
<td>Aquatic Chronic 4; H413</td>
<td>10.0 - 25.0 % by weight</td>
</tr>
<tr>
<td>2,4,6-tris(dimethylamino)methylphenol</td>
<td>Acute Tox. 4; H302 Eye Irrit. 2; H319 Skin Irrit. 2; H315 Skin Sens. 1; H317</td>
<td>2.5 - 10.0 % by weight</td>
</tr>
<tr>
<td>benzyl alcohol</td>
<td>Acute Tox. 4; H332 Acute Tox. 4; H302 Eye Irrit. 2; H319</td>
<td>2.5 - 10.0 % by weight</td>
</tr>
</tbody>
</table>
**GHS Safety Data Sheet**  
**Commercial Product Name:** FIS EM Plus 390/585/1500 S – Component B (Curing agent)  
**Revision Date:** 04.06.2018  
**Version:** 1.0 /en  
**Replaces version from:** -  
**Print date:** 04.06.2018

### Ingredient

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS No.: 80-05-7</th>
<th>GHS Classification</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>4,4'-iso-propyldenediphenol</td>
<td>Repr. 1B; H360F STOT SE 3; H335 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Chronic 2; H411</td>
<td>2.5 - 10.0 % by weight</td>
<td></td>
</tr>
</tbody>
</table>

### SECTION 4: First Aid Measures

#### 4.1 Description of first aid measures

**General advice**
- If symptoms persist, call a physician.
- Take off all contaminated clothing immediately.
- Remove/Take off immediately all contaminated clothing.

**If inhaled**
- Move to fresh air.
- If symptoms persist, call a physician.

**In case of skin contact**
- Do not get on skin.
- Wash off immediately with soap and plenty of water.
- If skin irritation or rash occurs, seek medical advice/attention.

**In case of eye contact**
- In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
- Obtain medical attention.

**If swallowed**
- If swallowed, seek medical advice immediately and show this container or label.
- Rinse mouth with water. Drink 1 or 2 glasses of water.
- Do NOT induce vomiting.

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

**Symptoms**
- None known.

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

**Immediate medical attention**
- No data available

**Special medical treatment**
- No data available

### SECTION 5: Firefighting Measures

#### 5.1 Extinguishing media

**Suitable extinguishing media**
- Dry powder
- Foam
- Carbon dioxide (CO2)
- Water spray jet

**Extinguishing media which must not be used for safety reasons**
- High volume 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

Hazardous decomposition products formed under fire conditions.
- Sulphur oxides
- Nitrogen oxides (NOx)
- Carbon oxides

5.3 Advice for firefighters

Special protective equipment for firefighting

In the event of fire, wear self-contained breathing apparatus.
In the event of fire and/or explosion do not breathe fumes.

Additional information on firefighting

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions

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.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up

Use mechanical handling equipment.
Dispose of contents/container in accordance with local regulation.

6.4 Reference to other sections

Reference to other sections
See chapter: 8/13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling
None under normal processing.

Precautions
Observe label precautions.

Advice on protection against fire and explosion
not required under normal use

7.2 Conditions for safe storage, including any incompatibilities

Storage space and container requirements
Store in original container.
Keep container tightly closed.
Store in accordance with local regulations.

Hints on storage assembly
Do not store near acids.
Keep away from oxidising agents, strongly acid or alkaline materials, as well as of amines, alcohols and water.

Storage specifications
Keep container tightly closed in a dry and well-ventilated place.
Protect from sunlight and store in well-ventilated place.

7.3 Specific end use(s)
Specific use(s) composite mortar
Further information: see technical data sheet.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

m-phenylenebis(methylamine)
Australia
Maximum admissible concentration /mg/m³ | Note | Source
---|---|---
0.1 | Sk | 39

Source: 39 – WORKPLACE EXPOSURE STANDARDS FOR AIRBORNE CONTAMINANTS 18.April 2013

4,4'-isopropylidenediphenol
Europe
Long-term exposure value/mg/m³ | Remarks | Issuing date | Source
---|---|---|---
2 | Einatembare Fraktion | 2017/164 | 24

Source: 24 – DIRECTIVE 2009/161/EU

8.2 Exposure controls

Respiratory protection
No personal respiratory protective equipment normally required.
In case of inadequate ventilation wear respiratory protection.

Hand protection

Suitable material: butyl-rubber, Fluorinated rubber, Nitrile rubber
Break through time: > 120 min
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). Protective gloves complying with EN 374.

Reference substance: Replace when worn.

Eye protection
Safety glasses

Skin and body protection
Wear suitable protective equipment.

General protective and hygiene measures
Avoid contact with the skin and the eyes.
Smoking, eating and drinking should be prohibited in the application area.
Wash hands before breaks and immediately after handling the product.
Information on environmental protection regulations

Keep away from food, drink and animal feedingstuffs.
Use protective skin cream before handling the product.

No special environmental precautions required.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form
Colour
Odour
pH
Melting point [°C] / Freezing point [°C]
Boiling point [°C]
Flash point [°C]
Evaporation rate [kg/(s*m²)]
Flammability (solid, gas)
Explosion limits [Vol-% ]
Lower limit:
Upper limit:
Vapour pressure [kPa]
Density [g/cm³]
Water solubility [g/l]
Partition coefficient n-octanol / water (log P O/W)
Autoignition temperature [°C]
Decomposition temperature [°C]
Viscosity, dynamic [kg/(m*s)]
Temperature:
Risk of explosion.
Ignition temperature [°C]
Oxidizing properties
Miscibility with water partly miscible

SECTION 10: Stability and reactivity

10.1 Reactivity
Thermal decomposition No decomposition if stored and applied as directed.

10.2 Chemical stability
Chemical stability Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
Hazardous reactions No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid
Conditions to avoid No dangerous reaction known under conditions of normal use.

10.5 Incompatible materials
Materials to avoid Strong acids and oxidizing agents

10.6 Hazardous decomposition products
Hazardous decomposition products None reasonably foreseeable.

SECTION 11: Toxicological information

11.1 Information on toxicological effects
Hazardous ingredients

m-phenylenebis(methylamine)

<table>
<thead>
<tr>
<th>Oral toxicity [mg/kg]</th>
<th>Test criterion</th>
<th>Test species</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>930</td>
<td>LD50</td>
<td>rat</td>
<td>100</td>
</tr>
<tr>
<td>Source: 100 - Company data</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Dermal toxicity [mg/kg]</th>
<th>Test criterion</th>
<th>Test species</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>2000</td>
<td>LD50</td>
<td>rabbit</td>
<td>100</td>
</tr>
<tr>
<td>Source: 100 - Company data</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Inhalative toxicity [mg/l]</th>
<th>Test criterion</th>
<th>Test species</th>
<th>Exposure duration</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>0,8</td>
<td>LC50</td>
<td>rat</td>
<td>4 h</td>
<td>100</td>
</tr>
<tr>
<td>Source: 100 - Company data</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Irritant effect on the respiratory tract Inhalation of vapours in high concentration may cause irritation of respiratory system.

<table>
<thead>
<tr>
<th>Specific target organ toxicity (single exposure) [mg/kg]</th>
<th>Remarks</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>No data available</td>
<td>100</td>
</tr>
</tbody>
</table>
### Specific target organ toxicity (repeated exposure) [mg/kg]

<table>
<thead>
<tr>
<th>Remarks</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>No data available</td>
<td>100</td>
</tr>
</tbody>
</table>

### Portlandzement

#### Oral toxicity [mg/kg]

<table>
<thead>
<tr>
<th>Test criterion</th>
<th>Test species</th>
<th>Remarks</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt; 2000</td>
<td>LD50</td>
<td>literature value</td>
<td>100</td>
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</tbody>
</table>

#### Dermal toxicity [mg/kg]

<table>
<thead>
<tr>
<th>Test criterion</th>
<th>Test species</th>
<th>Remarks</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt; 2000</td>
<td>rabbit</td>
<td>Limit test 2000 mg/kg</td>
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</tr>
</tbody>
</table>

### Inhalative toxicity [mg/l]

<table>
<thead>
<tr>
<th>Test criterion</th>
<th>Test species</th>
<th>Note</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt; 5</td>
<td>rat</td>
<td>Limit Test 5 g/m³</td>
<td>100</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Specific effects</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Irritating to respiratory system. (dust)</td>
<td>100</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Remarks</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not applicable.</td>
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</table>

### Aliphatic Polyamine

#### Oral toxicity [mg/kg]

<table>
<thead>
<tr>
<th>Test criterion</th>
<th>Test species</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt; 5000</td>
<td>LD50</td>
<td>100</td>
</tr>
</tbody>
</table>

#### Dermal toxicity [mg/kg]

<table>
<thead>
<tr>
<th>Test criterion</th>
<th>Test species</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt; 2000</td>
<td>rabbit</td>
<td>100</td>
</tr>
</tbody>
</table>

### 2,4,6-tris(dimethylaminomethyl)phenol

#### Oral toxicity [mg/kg]

<table>
<thead>
<tr>
<th>Test criterion</th>
<th>Test species</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>2169</td>
<td>LD50</td>
<td>100</td>
</tr>
</tbody>
</table>

#### Dermal toxicity [mg/kg]

<table>
<thead>
<tr>
<th>Test criterion</th>
<th>Test species</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt; 1242</td>
<td>LD50</td>
<td>100</td>
</tr>
</tbody>
</table>
### Inhalative toxicity [mg/l]

<table>
<thead>
<tr>
<th>Test criterion</th>
<th>Test species</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt; 1673</td>
<td>LC50</td>
<td>rat</td>
</tr>
</tbody>
</table>

Source: 100 - Company data

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

<table>
<thead>
<tr>
<th>Specific effects</th>
<th>Organs affected</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye disease, Rash, Allergies, Neurological disorders</td>
<td>Eyes, Skin contact, Central nervous system</td>
<td>100</td>
</tr>
</tbody>
</table>

Source: 100 - Company data

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

<table>
<thead>
<tr>
<th>Remarks</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>No data available</td>
<td>100</td>
</tr>
</tbody>
</table>

Source: 100 - Company data

### benzyal alcohol

#### Oral toxicity [mg/kg]

<table>
<thead>
<tr>
<th>Test criterion</th>
<th>Test species</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>1230</td>
<td>LD50</td>
<td>rat</td>
</tr>
</tbody>
</table>

Source: 100 - Company data

#### Dermal toxicity [mg/kg]

<table>
<thead>
<tr>
<th>Test criterion</th>
<th>Test species</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>2000</td>
<td>LD50</td>
<td>rabbit</td>
</tr>
</tbody>
</table>

Source: 100 - Company data

### 4,4'-isopropylidenediphenol

#### Oral toxicity [mg/kg]

<table>
<thead>
<tr>
<th>Test criterion</th>
<th>Test species</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>3250</td>
<td>LD50</td>
<td>rat</td>
</tr>
</tbody>
</table>

Source: 100 - Company data

#### Dermal toxicity [mg/kg]

<table>
<thead>
<tr>
<th>Test criterion</th>
<th>Test species</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>6400</td>
<td>LD50</td>
<td>rabbit</td>
</tr>
</tbody>
</table>

Source: 100 - Company data
Inhalative toxicity

<table>
<thead>
<tr>
<th>[mg/l]</th>
<th>Test criterion</th>
<th>Test species</th>
<th>Exposure duration</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt; 170</td>
<td>LC50</td>
<td>rat</td>
<td>6 h</td>
<td>100</td>
</tr>
</tbody>
</table>

Source: 100 - Company data

Irritant effect on skin
Irritating to skin and mucous membranes

Irritant effect on eyes
Risk of serious damage to eyes.

Sensitization
There is no data available for this product.

Carcinogenic effects
No data available

Mutagenicity
There is no data available for this product.

Reproduction toxicity
There is no data available for this product.

Caustic effect
Causes severe skin burns and eye damage.

11.2 Additional information
Other information (chapter 11.)
There is no data available for this product.

SECTION 12: Ecological information

12.1 Toxicity

Hazardous ingredients

Portlandzement

<table>
<thead>
<tr>
<th>Toxicity to fish [mg/l]</th>
<th>Test criterion</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt; 100</td>
<td>LC50</td>
<td>100</td>
</tr>
</tbody>
</table>

Source: 100 - Company data

<table>
<thead>
<tr>
<th>Toxicity to daphnia [mg/l]</th>
<th>Test criterion</th>
<th>Test species</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt; 100</td>
<td>LC50</td>
<td>Daphnia magna (Water flea)</td>
<td>100</td>
</tr>
</tbody>
</table>

Source: 100 - Company data

<table>
<thead>
<tr>
<th>Toxicity to algae [mg/l]</th>
<th>Test criterion</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt; 100</td>
<td>EC50</td>
<td>100</td>
</tr>
</tbody>
</table>

Source: 100 - Company data

2,4,6-tris(dimethylaminomethyl)phenol

<table>
<thead>
<tr>
<th>Toxicity to fish [mg/l]</th>
<th>Test criterion</th>
<th>Test species</th>
<th>Exposure duration</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>222</td>
<td>LC50</td>
<td>Oncorhynchus mykiss (Rainbow trout)</td>
<td>24 h</td>
<td>100</td>
</tr>
<tr>
<td>249</td>
<td>LC50</td>
<td>Cyprinus carpio (Carp)</td>
<td>24 h</td>
<td>100</td>
</tr>
</tbody>
</table>

Source: 100 - Company data

<table>
<thead>
<tr>
<th>Toxicity to daphnia [mg/l]</th>
<th>Test criterion</th>
<th>Exposure duration</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>718</td>
<td>LC50</td>
<td>96 h</td>
<td>100</td>
</tr>
</tbody>
</table>
Source: 100 - Company data

<table>
<thead>
<tr>
<th>Toxicity to algae [mg/l]</th>
<th>Test criterion</th>
<th>Test species</th>
<th>Exposure duration</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>84</td>
<td>EC50</td>
<td>Scenedesmus subspicatus</td>
<td>72 h</td>
<td>100</td>
</tr>
</tbody>
</table>

Source: 100 - Company data

**benzyl alcohol**

<table>
<thead>
<tr>
<th>Toxicity to fish [mg/l]</th>
<th>Test criterion</th>
<th>Test species</th>
<th>Exposure duration</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>460</td>
<td>LC50</td>
<td>Pimephales promelas (fathead minnow)</td>
<td>96 h</td>
<td>100</td>
</tr>
</tbody>
</table>

Source: 100 - Company data

<table>
<thead>
<tr>
<th>Toxicity to daphnia [mg/l]</th>
<th>Test criterion</th>
<th>Test species</th>
<th>Exposure duration</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>230</td>
<td>EC50</td>
<td>Daphnia magna (Water flea)</td>
<td>48 h</td>
<td>100</td>
</tr>
</tbody>
</table>

Source: 100 - Company data

<table>
<thead>
<tr>
<th>Toxicity to algae [mg/l]</th>
<th>Test criterion</th>
<th>Test species</th>
<th>Exposure duration</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>700</td>
<td>IC50:</td>
<td>Pseudokirchneriella subcapitata</td>
<td>72 h</td>
<td>100</td>
</tr>
</tbody>
</table>

Source: 100 - Company data

<table>
<thead>
<tr>
<th>NOEC (daphnia) [mg/l]</th>
<th>Test species</th>
<th>Measuring method</th>
<th>Exposure duration</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>51</td>
<td>Daphnia magna (Big water flea)</td>
<td>OECD 211</td>
<td>21 d</td>
<td>100</td>
</tr>
</tbody>
</table>

Source: 100 - Company data

**4,4’-isopropylidenediphenol**

<table>
<thead>
<tr>
<th>Toxicity to fish [mg/l]</th>
<th>Test criterion</th>
<th>Test species</th>
<th>Exposure duration</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt; 4</td>
<td>LC50</td>
<td>Pimephales promelas (fathead minnow)</td>
<td>96 h</td>
<td>100</td>
</tr>
<tr>
<td>9,9</td>
<td>LC50</td>
<td>Brachydanio rerio (zebra fish)</td>
<td>96 h</td>
<td>100</td>
</tr>
<tr>
<td>4</td>
<td>LC50</td>
<td>Oncorhynchus mykiss (rainbow trout)</td>
<td>96 h</td>
<td>100</td>
</tr>
</tbody>
</table>

Source: 100 - Company data

<table>
<thead>
<tr>
<th>Toxicity to daphnia [mg/l]</th>
<th>Test criterion</th>
<th>Test species</th>
<th>Exposure duration</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>3,9</td>
<td>EC50</td>
<td>Daphnia magna (Water flea)</td>
<td>48 h</td>
<td>100</td>
</tr>
<tr>
<td>10,2</td>
<td>EC50</td>
<td>Daphnia magna (Water flea)</td>
<td>48 h</td>
<td>100</td>
</tr>
<tr>
<td>&gt; 9,2</td>
<td>EC50</td>
<td>Daphnia magna (Water flea)</td>
<td>48 h</td>
<td>100</td>
</tr>
</tbody>
</table>

Source: 100 - Company data
12.2 Persistence and degradability

Elimination and distribution mechanisms: There is no data available for this product.

Elimination in purification plant: There is no data available for this product.

Biodegradability: There is no data available for this product.

12.3 Bioaccumulative potential

Bioaccumulation: There is no data available for this product.

Bioconcentration factor (BCF): There is no data available for this product.

12.4 Mobility in soil

Distribution in the environment: There is no data available for this product.

Mobility: There is no data available for this product.

12.5 Results of PBT and vPvB assessment

Results of PBT characteristics determination: This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).

12.6 Other adverse effects

Further information on ecology: No information on ecology is available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Disposal considerations: Dispose of as hazardous waste in compliance with local and national regulations.

Waste Code: Product

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

Uncleaned empty packaging: Dispose of as unused product.

Do not flush into surface water or sanitary sewer system.
SECTION 14: Transport information

<table>
<thead>
<tr>
<th>14.1 UN-No.</th>
<th>Land transport ADR/RID</th>
<th>Marine transport IMDG</th>
<th>Air transport ICAO/IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>3259</td>
<td>3259</td>
<td>3259</td>
<td></td>
</tr>
</tbody>
</table>

14.2 Description of the goods
AMINES, SOLID, CORROSIVE, N.O.S.

14.2 UN proper shipping name
AMINES, SOLID, CORROSIVE, N.O.S.

14.3 Transport hazard class(es)
8

14.4 Packaging group
II

Labels
Risk No. 80
Category 2
Classification Code C8
Tunnel restriction code E
Proper shipping name m-phenylenebis(methylamine)
EmS F-A:S-B
Stowage category A

14.6 Special precautions for user
Precautions not required under normal use

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

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
Restriction of occupation. Do not use for private purposes (household).

15.2 Chemical safety assessment
Safety assessment Not relevant. Chemical safety assessments for substances in this mixture were not carried out.
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.
- H322: Harmful if inhaled.
- H335: May cause respiratory irritation.
- H360F: May damage fertility.
- 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.

Wording of the hazard classes

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

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

<table>
<thead>
<tr>
<th>Classification</th>
<th>Evaluation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Tox. 4; H332</td>
<td>Calculated</td>
</tr>
<tr>
<td>Skin Corr. 1B; H314</td>
<td>Calculated</td>
</tr>
<tr>
<td>Skin Sens. 1; H317</td>
<td>Calculated</td>
</tr>
<tr>
<td>Repr. 1B; H360F</td>
<td>Calculated</td>
</tr>
<tr>
<td>STOT SE 3; H335</td>
<td>Calculated</td>
</tr>
<tr>
<td>Aquatic Chronic 3; H412</td>
<td>Calculated</td>
</tr>
</tbody>
</table>

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.