# GHS Safety Data Sheet

**Commercial Product Name:** FIS SB 390/585/1500 S Mortar (Component A)  
**Revision Date:** 03.05.2018  
**Replaces version from:** 28.01.2015  
**Version:** 3.0/en  
**Print date:** 03.05.2018

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

### 1.1 Product identifier

**Commercial Product Name**
FIS SB 390/585/1500 S Mortar (Component A)

### 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

- AnchorMark Pty.Ltd.  
  Unit 1, 61 Waterview Close  
  Dandenong South VIC 3175, Australia  
  Telephone: +61 (0) 3 97992096  
  FAX: +61 (0) 3 97992696  
  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 GHS**
Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1; H317 STOT SE 3; H335
2.2 Label elements

Hazard pictogram

- GHS05
- GHS07

Signal word
Danger

Hazardous component(s) to be indicated on label
portland cement, 2-hydroxypropyl methacrylate

H-statement(s)
H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H318: Causes serious eye damage.
H335: May cause respiratory irritation.

P-statement(s)
P101: If medical advice is needed, have product container or label at hand.
P102: Keep out of reach of children.
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.

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

Hazardous ingredients

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS No.</th>
<th>Classification (EC) 1272/2008</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>portland cement</td>
<td>65997-15-1</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>2-hydroxypropyl methacrylate</td>
<td>27813-02-1</td>
<td>Skin Sens. 1; H317 Eye Irrit. 2; H319</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.
Remove/Take off immediately all contaminated clothing.

**If inhaled**
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

**In case of skin contact**
IF ON SKIN: Gently wash with plenty of soap and water.

**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.
If swallowed, seek medical advice immediately and show this container or label.
Clean mouth with water and drink afterwards plenty of 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**
Carbon dioxide (CO2)
Dry powder
Foam
Water spray jet

**Extinguishing media which must not be used for safety**
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

Heating or fire can release toxic gas.

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.

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

Additional information on firefighting

Keep containers and surroundings cool with water spray.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions

Ensure adequate ventilation, especially in confined areas.

Keep people away from and upwind of spill/leak.

6.2 Environmental precautions

Environmental precautions

The product should not be allowed to enter drains, water courses or the soil.

Prevent spreading 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

Use mechanical handling equipment.

Treat recovered material as described in the section "Disposal considerations".

6.4 Reference to other sections

Reference to other sections

See chapter 8/13

6.5 Additional information

Other information

Dispose of in accordance with local regulations.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

None under normal processing.

Caution: During machining in cured state dust is formed.

Advice on protection against fire and

No special precautions required.
explosion
7.2 Conditions for safe storage, including any incompatibilities

| Storage space and container requirements | Keep containers tightly closed in a cool, well-ventilated place. Store in accordance with local regulations. Keep only in original container. |
| Hints on storage assembly | Store in accordance with the particular national regulations. |
| German storage class | 10-13 (TRGS 510) |

7.3 Specific end use(s)

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

SECTION 8: Exposure controls/personal protection

Ingredients with occupational exposure limits to be monitored
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Respiratory protection
No personal respiratory protective equipment normally required.

Hand protection
not required under normal use

Suitable material: butyl-rubber, Chloroprene, Nitrile rubber

Unsuitable material: PVC disposable gloves

Material thickness: adjust to application and duration of use

Break through time: adjust to application and duration of use

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).

Reference substance: Replace when worn.

Eye protection
Tightly fitting safety goggles

Skin and body protection
Wear suitable protective equipment.

Note: Choose body protection according to the amount and concentration of the dangerous substance at the workplace.

Smoking, eating and drinking should be prohibited in the application area. Avoid contact with skin, eyes and clothing. Take off all contaminated clothing immediately. Wash hands before breaks and at the end of workday. Keep away from food, drink and animal...
Information on environmental protection regulations

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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form</td>
<td>paste</td>
</tr>
<tr>
<td>Colour</td>
<td>light grey</td>
</tr>
<tr>
<td>Odour</td>
<td>characteristic</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>not determined</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting point [°C] / Freezing point [°C]</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling point [°C]</td>
<td>no data available</td>
</tr>
<tr>
<td>Flash point [°C]</td>
<td>&gt; 100</td>
</tr>
<tr>
<td>Evaporation rate [kg/(s*m²)]</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosion limits [Vol-%]</td>
<td></td>
</tr>
<tr>
<td>Lower limit</td>
<td>not determined</td>
</tr>
<tr>
<td>Upper limit</td>
<td>not determined</td>
</tr>
<tr>
<td>Vapour pressure [kPa]</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapour density</td>
<td>No data available</td>
</tr>
<tr>
<td>Density [g/cm³]</td>
<td>1.7 - 1.8</td>
</tr>
<tr>
<td>Temperature:</td>
<td>20 °C</td>
</tr>
<tr>
<td>Relative density</td>
<td>No data available</td>
</tr>
<tr>
<td>Solubility</td>
<td>No data available</td>
</tr>
<tr>
<td>Water solubility [g/l]</td>
<td>not determined</td>
</tr>
<tr>
<td>Solubility [g/l]</td>
<td>No data available</td>
</tr>
<tr>
<td>Partition coefficient n-octanol /water (log P O/W)</td>
<td>No data available</td>
</tr>
<tr>
<td>Autoinflammability</td>
<td>not auto-flammable</td>
</tr>
<tr>
<td>Decomposition temperature [°C]</td>
<td>not determined</td>
</tr>
<tr>
<td>Viscosity, dynamic [kg/(m*s)]</td>
<td>120 - 160</td>
</tr>
<tr>
<td>Temperature:</td>
<td>20 °C</td>
</tr>
</tbody>
</table>
**Explosive properties**  
Not explosive  

**Risk of explosion.**  
Not explosive  

**Oxidising properties**  
No  

### 9.2 Other information

**Relative vapour density (air=1)**  
not determined  

### 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 decomposition if used as directed.  

### 10.5 Incompatible materials

**Materials to avoid**  
Not applicable.  

**10.6 Hazardous decomposition products**

**Hazardous decomposition products**  
No decomposition if used as directed.  

### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

**Hazardous ingredients**

**portland cement**

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

<table>
<thead>
<tr>
<th>Dermal toxicity [mg/kg]</th>
<th>Test criterion</th>
<th>Test species</th>
<th>Remarks</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>

<table>
<thead>
<tr>
<th>Inhalative toxicity [mg/l]</th>
<th>Test criterion</th>
<th>Test species</th>
<th>Note</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>

**Sensitization**  
May cause an allergic skin reaction.  

**Carcinogenic effects**  
Not applicable.  

**Mutagenicity**  
Not applicable.  

**Reproduction toxicity**  
Not applicable.
Caustic effect  No data available

Specific effects
Irritating to respiratory system. (dust)

2-hydroxypropyl methacrylate

<table>
<thead>
<tr>
<th>Oral toxicity [mg/kg]</th>
<th>Test criterion</th>
<th>Test species</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt; 2000</td>
<td>LD50</td>
<td>rat</td>
<td>OECD 401 Limit Test.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Dermal toxicity [mg/kg]</th>
<th>Test criterion</th>
<th>Test species</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt; 5000</td>
<td>LD50</td>
<td>rabbit</td>
</tr>
</tbody>
</table>

Inhalative toxicity [mg/l]
No data available

<table>
<thead>
<tr>
<th>Sensitization</th>
<th>Hautsensibilisierend.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carcinogenic effects</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Mutagenicity</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Reproduction toxicity</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Caustic effect</th>
<th>none</th>
</tr>
</thead>
<tbody>
<tr>
<td>Corrosion</td>
<td></td>
</tr>
</tbody>
</table>

Irritant effect on skin  Irritating to skin and mucous membranes
Irritant effect on eyes  Irritating to eyes.

**11.2 Additional information**

**Other information**  The product itself has not been tested.
(Chapter 11.)

**SECTION 12: Ecological information**

**12.1 Toxicity**

**Hazardous ingredients**

**Portland cement**

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

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

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

Biodegradability  Not applicable. (inorganic)
### 2-hydroxypropyl methacrylate

<table>
<thead>
<tr>
<th>Toxicity to fish [mg/l]</th>
<th>Test criterion</th>
<th>Test species</th>
<th>Measuring method</th>
<th>Exposure duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>493</td>
<td>LC50</td>
<td>Leuciscus idus (Golden orfe)</td>
<td>DIN 38412</td>
<td>48 h</td>
</tr>
</tbody>
</table>

<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>
</tr>
</thead>
<tbody>
<tr>
<td>&gt; 130</td>
<td>EC50</td>
<td>Daphnia magna (Water flea)</td>
<td>48 h</td>
<td>OECD Test Guideline 202</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Toxicity to algae [mg/l]</th>
<th>Test criterion</th>
<th>Test species</th>
<th>Exposure duration</th>
<th>Measuring method</th>
</tr>
</thead>
<tbody>
<tr>
<td>345</td>
<td>EC50</td>
<td>Selenastrum capricornutum</td>
<td>72 h</td>
<td>OECD Test Guideline 201</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>NOEC (daphnia) [mg/l]</th>
<th>Test criterion</th>
<th>Test species</th>
<th>Measuring method</th>
<th>Exposure duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>24,1</td>
<td>NOEC</td>
<td>Daphnia magna (Big water flea)</td>
<td>OECD 202</td>
<td>21 d</td>
</tr>
</tbody>
</table>

Biodegradability: Readily biodegradable.

Ready degradability

#### 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.

#### 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**

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 very persistent nor very bioaccumulating (vPvB).
12.6 Other adverse effects

Further information The product itself has not been tested.

on ecology

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Disposal considerations The product should not be allowed to enter drains, water courses or the soil.
Dispose of waste according to applicable legislation. Empty remaining contents.

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></td>
<td>Not applicable.</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>14.2 Description of the goods</td>
<td>No dangerous good according to ADR</td>
<td>No dangerous good according to IMDG</td>
<td>No dangerous good according to IATA</td>
</tr>
<tr>
<td>14.2 UN proper shipping name</td>
<td>Non dangerous good</td>
<td>Non dangerous good</td>
<td></td>
</tr>
<tr>
<td>14.3 Transport hazard class(es)</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>14.4 Packaging group</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>14.5 Environmental hazards</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Danger releasing substance</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

14.6 Special precautions for user
Precautions not required under normal use

SECTION 15: Regulatory information

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

Additional regulations Not applicable.

SECTION 16: Other information

Relevant H-phrases 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.

Wording of the hazard classes Skin Irrit.: Skin irritation
Eye Dam.: Serious eye damage
<table>
<thead>
<tr>
<th>Modifications since last version</th>
<th>Modifications of the previous version are denoted with an asterisk (*)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Classification for mixtures and used evaluation method according to regulation (EC) 1272/2008 [CLP]</td>
<td></td>
</tr>
<tr>
<td><strong>Classification</strong></td>
<td><strong>Evaluation</strong></td>
</tr>
<tr>
<td>Skin Irrit. 2; H315</td>
<td>Calculated</td>
</tr>
<tr>
<td>Eye Dam. 1; H318</td>
<td>Calculated</td>
</tr>
<tr>
<td>Skin Sens. 1; H317</td>
<td>Calculated</td>
</tr>
<tr>
<td>STOT SE 3; H335</td>
<td>Calculated</td>
</tr>
<tr>
<td>Recommended restrictions</td>
<td>None under normal processing. Observe technical data sheet.</td>
</tr>
</tbody>
</table>