GHS Safety Data Sheet

Commercial Product Name: FIS SB 390/585/1500 S Curing agent (Component B)

Revision Date: 03.05.2018
Replaces version from: 01.12.2015
Version: 5.0/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 Curing agent (Component B)

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

Marketer: 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 Sens. 1; H317 Aquatic Chronic 2; H411

2.2 Label elements
Hazard pictogram: GHS07
Signal word: Warning
Hazardous component(s) to be indicated on label: dibenzoyl peroxide
H-statement(s): H317: May cause an allergic skin reaction.
H411: Toxic to aquatic life with long lasting effects.
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.

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>Ingredient</th>
<th>CAS No.</th>
<th>Classification (EC) 1272/2008</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>ethanediol, ethylene glycol</td>
<td>107-21-1</td>
<td>Acute Tox. 4; H302 STOT RE 2; H373</td>
<td>&lt; 10.0 % by weight</td>
</tr>
<tr>
<td>dibenzoyl peroxide</td>
<td>94-36-0</td>
<td>Org. Perox. B; H241 Eye Irrit. 2; H319 Skin Sens. 1; H317 Aquatic Acute 1; H400</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: 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 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**
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.

**Additional information on firefighting**
- Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
- 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
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 explosion
No special precautions required.

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

ethanediol, ethylene glycol

Australia

<table>
<thead>
<tr>
<th>Note</th>
<th>Long-term exposure value/ mg/m3</th>
<th>Short-term exposure value / ppm</th>
<th>Short-term exposure value / mg/m3</th>
<th>Long-term exposure value/ ppm</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sk</td>
<td>10</td>
<td></td>
<td></td>
<td></td>
<td>WORKPLACE EXPOSURE STANDARDS FOR AIRBORNE CONTAMINANTS 18.April 2013</td>
</tr>
<tr>
<td>Sk</td>
<td>52</td>
<td>40</td>
<td>104</td>
<td>20</td>
<td>WORKPLACE EXPOSURE STANDARDS FOR AIRBORNE CONTAMINANTS 18.April 2013</td>
</tr>
</tbody>
</table>
**Europe**

<table>
<thead>
<tr>
<th>Long-term exposure value / mg/m³</th>
<th>Long-term exposure value / ppm</th>
<th>Short-term exposure value / mg/m³</th>
<th>Short-term exposure value / ppm</th>
<th>Note</th>
<th>Issuing date</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>52</td>
<td>20</td>
<td>104</td>
<td>40</td>
<td>Skin</td>
<td>2000/39</td>
<td>DIRECTIVE 2009/161/EU</td>
</tr>
</tbody>
</table>

**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 work place.

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 feedingstuffs.

Use protective skin cream before handling the product.

No special environmental precautions required.

**General protective and hygiene measures**

**Information on environmental protection regulations**

**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

- **pH**
  
  No data available

- **Melting point [°C] /**
  
  No data available

- **Freezing point [°C] /**
  
  No data available

- **Boiling point [°C] /**
  
  no data available
<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<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>Density [g/cm³]</td>
<td>1.7 - 1.9</td>
</tr>
<tr>
<td>Temperature:</td>
<td>20 °C</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></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>70 - 110</td>
</tr>
<tr>
<td>Temperature:</td>
<td>20 °C</td>
</tr>
<tr>
<td>Risk of explosion.</td>
<td>Not explosive</td>
</tr>
</tbody>
</table>

9.2 Other information

Relative vapour density (air=1)

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

**ethanediol, ethylene glycol**

<table>
<thead>
<tr>
<th>Oral toxicity [mg/kg]</th>
<th>Test criterion</th>
<th>Test species</th>
</tr>
</thead>
<tbody>
<tr>
<td>Harmful if swallowed.</td>
<td>LD50</td>
<td>rabbit</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; 3500</td>
<td>LD50</td>
<td>rabbit</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>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt; 2,5</td>
<td>LC50</td>
<td>rat</td>
<td>6 h</td>
<td>(as aerosol)</td>
</tr>
</tbody>
</table>

- Sensitization: not sensitising.
- Carcinogenic effects: none carcinogenic effects
- Mutagenicity: Not applicable.
- Reproduction toxicity: Not applicable.
- Caustic effect: No data available

**dibenzoyl peroxide**

<table>
<thead>
<tr>
<th>Oral toxicity [mg/kg]</th>
<th>Test criterion</th>
<th>Test species</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt; 5000</td>
<td>LD50</td>
<td>rat</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>24300</td>
<td>LC50</td>
<td>rat</td>
<td>(dust)</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 (chapter 11.)
The product itself has not been tested.

SECTION 12: Ecological information

12.1 Toxicity

Hazardous ingredients

**ethanediol, ethylene glycol**

<table>
<thead>
<tr>
<th>Toxicity to fish [mg/l]</th>
<th>Test criterion</th>
<th>Test species</th>
<th>Exposure duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>72860</td>
<td>LC50</td>
<td>Pimephales promelas (Pimephales promelas (fathead minnow))</td>
<td>96 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>
</tr>
</thead>
<tbody>
<tr>
<td>&gt; 100</td>
<td>EC50</td>
<td>Daphnia magna (Water)</td>
<td>48 h</td>
</tr>
<tr>
<td>Test criterion</td>
<td>Test species</td>
<td>Exposure duration</td>
<td></td>
</tr>
<tr>
<td>----------------</td>
<td>--------------</td>
<td>-------------------</td>
<td></td>
</tr>
<tr>
<td>EC50</td>
<td>Selenastrum capricornutum</td>
<td>96 h</td>
<td></td>
</tr>
<tr>
<td>NOEC (fish) [mg/l]</td>
<td>Pimephales promelas (fathead minnow)</td>
<td>7 d</td>
<td></td>
</tr>
</tbody>
</table>

**Biodegradability 90 - 100 %**

**Ready degradability**

dibenzoyl peroxide

<table>
<thead>
<tr>
<th>Test criterion</th>
<th>Exposure duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50</td>
<td>96 h</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Test criterion</th>
<th>Test species</th>
<th>Exposure duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC50</td>
<td>Daphnia magna (Water flea)</td>
<td>48 h</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Test criterion</th>
<th>Exposure duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC50</td>
<td>72 h</td>
</tr>
</tbody>
</table>

NOEC (daphnia) [mg/l] 1

**Test species:** Daphnia magna (Big water flea).

**Measuring method:** OECD 202

**Exposure duration:** 48 h

NOEC (algae) [mg/l] 0,5

**Test species:** Pseudokirchneriella subcapitata

**Measuring method:** OECD 201

**Exposure duration:** 72 h

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**

There is no data available for this product.
### Environment 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 on ecology**

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

### 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>Land transport ADR/RID</th>
<th>Marine transport IMDG</th>
<th>Air transport ICAO/IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>14.1 UN-No</strong></td>
<td>3077</td>
<td>3077</td>
</tr>
<tr>
<td><strong>14.2 Description of the goods</strong></td>
<td>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (dibenzoyl peroxide)</td>
<td>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (dibenzoyl peroxide)</td>
</tr>
<tr>
<td><strong>14.2 UN proper shipping name</strong></td>
<td></td>
<td>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (dibenzoyl peroxide)</td>
</tr>
<tr>
<td><strong>14.3 Transport hazard class(es)</strong></td>
<td>9</td>
<td>9</td>
</tr>
<tr>
<td><strong>14.4 Packaging group</strong></td>
<td>III</td>
<td>III</td>
</tr>
<tr>
<td><strong>14.5 Environmental hazards</strong></td>
<td>U - Environmentally hazardous</td>
<td>U - marine pollutant</td>
</tr>
<tr>
<td><strong>Remarks</strong></td>
<td>Not dangerous goods in original packaging (Special Provision 375)</td>
<td>Not dangerous goods in original packaging (Special Provision 969)</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
H241: Heating may cause a fire or explosion.
H302: Harmful if swallowed.
H317: May cause an allergic skin reaction.
H319: Causes serious eye irritation.
H373: May cause damage to organs through prolonged or repeated exposure.
H400: Very toxic to aquatic life.
H411: Toxic to aquatic life with long lasting effects.

Skin Sens.: Skin sensitization
Aquatic Chronic: Hazardous to the aquatic environment
Acute Tox.: Acute toxicity
STOT RE: Specific target organ toxicity - repeated exposure
Org. Perox.: Organic peroxide
Eye Irrit.: Serious eye irritation
Aquatic Acute: Hazardous to the aquatic environment

Wording of the hazard classes

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>Skin Sens. 1; H317</td>
<td>Calculated</td>
</tr>
<tr>
<td>Aquatic Chronic 2; H411</td>
<td>Data obtained by expert judgement.</td>
</tr>
</tbody>
</table>

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