

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: 1.0/en

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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
BLACKS FASTENERS LTD
34 Nga Mahi Road, Sockburn
Christchurch 8042 (postal code) New Zealand
Telephone: 0800 652 463
FAX: 0800 652 464
Email: sockburn@blacksfasteners.co.nz

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 GHS Skin Sens. 1; H317 Aquatic Chronic 2; H411

2.2 Label elements

Hazard pictogram



GHS07



GHS09

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

Hazardous ingredients

| Ingredient | CAS No. | Classification (EC) 1272/2008 | Concentration |
|-----------------------------|----------|---|------------------------|
| ethanediol, ethylene glycol | 107-21-1 | Acute Tox. 4; H302 STOT RE 2; H373 | < 10.0 % by weight |
| dibenzoyl peroxide | 94-36-0 | Org. Perox. B; H241 Eye Irrit. 2; H319 Skin Sens. 1; H317 Aquatic Acute 1; H400 | 2.5 - 10.0 % by weight |

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

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 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

| Note | Long-term exposure value/ mg/m ³ | Short-term exposure value / ppm | Short-term exposure value / mg/m ³ | Long-term exposure value/ ppm | Source |
|------|---|---------------------------------|---|-------------------------------|--|
| Sk | 10 | | | | WORKPLACE EXPOSURE STANDARDS FOR AIRBORNE CONTAMINANTS 18.April 2013 |
| Sk | 52 | 40 | 104 | 20 | WORKPLACE EXPOSURE STANDARDS FOR AIRBORNE CONTAMINANTS 18.April 2013 |

Europe

| Long-term exposure value/mg/m3 | Long-term exposure value/ppm | Short-term exposure value / mg/m3 | Short-term exposure value / ppm | Note | Issuing date | Source |
|--------------------------------|------------------------------|-----------------------------------|---------------------------------|------|--------------|-----------------------|
| 52 | 20 | 104 | 40 | Skin | 2000/39 | DIRECTIVE 2009/161/EU |

| | |
|--|---|
| 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. |
| General protective and hygiene measures | 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. |
| 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 | black |
| Odour | characteristic |
| Odour threshold | not determined |
| pH | No data available |
| 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: | not determined |
| Upper limit: | not determined |
| Vapour pressure [kPa] | No data available |
| Density [g/cm³] | 1,7 - 1,9 |
| Temperature: | 20 °C |
| Water solubility [g/l] | not determined |
| 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] | not determined |
| Viscosity, dynamic [kg/(m*s)] | 70 - 110 |
| Temperature: | 20 °C |
| Risk of explosion. | Not explosive |
| 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****ethanediol, ethylene glycol**

| |
|-----------------------|
| Oral toxicity [mg/kg] |
| Harmful if swallowed. |

| | | |
|-------------------------|----------------|--------------|
| Dermal toxicity [mg/kg] | Test criterion | Test species |
| > 3500 | LD50 | rabbit |

| | | | | |
|----------------------------|----------------|--------------|-------------------|--------------|
| Inhalative toxicity [mg/l] | Test criterion | Test species | Exposure duration | Note |
| > 2,5 | LC50 | rat | 6 h | (as aerosol) |

Sensitization not sensitising.

Carcinogenic effects none carcinogenic effects

Mutagenicity Not applicable.

Reproduction toxicity Not applicable.

Caustic effect No data available

dibenzoyl peroxide

| | | |
|-----------------------|----------------|--------------|
| Oral toxicity [mg/kg] | Test criterion | Test species |
| > 5000 | LD50 | rat |

| | | | |
|----------------------------|----------------|--------------|--------|
| Inhalative toxicity [mg/l] | Test criterion | Test species | Note |
| 24300 | LC50 | rat | (dust) |

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****ethanediol, ethylene glycol**

| | | | |
|-------------------------|----------------|--|-------------------|
| Toxicity to fish [mg/l] | Test criterion | Test species | Exposure duration |
| 72860 | LC50 | Pimephales promelas (Pimephales promelas (fathead minnow)) | 96 h |

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

| | | | |
|--------------------------|----------------|--------------------------------------|-------------------|
| | | flea) | |
| Toxicity to algae [mg/l] | Test criterion | Test species | Exposure duration |
| > 6500 | EC50 | Selenastrum capricornutum | 96 h |
| NOEC (fish) [mg/l] | Test criterion | Test species | Exposure duration |
| 15380 | NOEC | Pimephales promelas (fathead minnow) | 7 d |

Biodegradability 90 - 100 %

Ready degradability

dibenzoyl peroxide

| | | | |
|----------------------------|----------------|----------------------------|-------------------|
| Toxicity to fish [mg/l] | Test criterion | Exposure duration | |
| 0,06 | LC50 | 96 h | |
| Toxicity to daphnia [mg/l] | Test criterion | Test species | Exposure duration |
| 0,11 | EC50 | Daphnia magna (Water flea) | 48 h |
| Toxicity to algae [mg/l] | Test criterion | Exposure duration | |
| 0,06 | EC50 | 72 h | |

Ready degradability

| | |
|------------------------------|---------------------------------|
| 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

| | 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. (dibenzoyl peroxide) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (dibenzoyl peroxide) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (dibenzoyl peroxide) |
| 14.2 UN proper shipping name | | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (dibenzoyl peroxide) | Environmentally hazardous substance, solid, n.o.s. (dibenzoyl peroxide) |
| 14.3 Transport hazard class(es) | 9 | 9 | 9 |
| 14.4 Packaging group | III | III | III |
| 14.5 Environmenta l hazards | U - Environmentally hazardous | U - marine pollutant | U - Environmentally hazardous |
| Remarks | Not dangerous goods in original packaging (Special Provision 375) | Not dangerous goods in original packaging (Special Provision 969) | Not dangerous goods in original packaging (Special Provision A197) |

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 | <p>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.</p> | | | | | | |
|--|--|----------------|------------|--------------------|------------|-------------------------|------------------------------------|
| Wording of the hazard classes | <p>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</p> | | | | | | |
| Modifications since last version | Modifications of the previous version are denoted with an asterisk (*). | | | | | | |
| Classification for mixtures and used evaluation method according to regulation (EC) 1272/2008 [CLP] | <table border="1"> <thead> <tr> <th data-bbox="542 1265 893 1344">Classification</th> <th data-bbox="893 1265 1356 1344">Evaluation</th> </tr> </thead> <tbody> <tr> <td data-bbox="542 1344 893 1388">Skin Sens. 1; H317</td> <td data-bbox="893 1344 1356 1388">Calculated</td> </tr> <tr> <td data-bbox="542 1388 893 1456">Aquatic Chronic 2; H411</td> <td data-bbox="893 1388 1356 1456">Data obtained by expert judgement.</td> </tr> </tbody> </table> | Classification | Evaluation | Skin Sens. 1; H317 | Calculated | Aquatic Chronic 2; H411 | Data obtained by expert judgement. |
| Classification | Evaluation | | | | | | |
| Skin Sens. 1; H317 | Calculated | | | | | | |
| Aquatic Chronic 2; H411 | Data obtained by expert judgement. | | | | | | |
| Recommended restrictions | None under normal processing. Observe technical data sheet. | | | | | | |