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

1.1 Product identifier
Commercial Product Name: FIS SB 390 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: Great Britain: Mrs Mirka Valovicova, fischer Fixing (UK) Ltd
Hithercroft Road
Wallingford, Oxfordshire, OX10 9AT
Telephone: +44 01491 827 920
FAX: +44 01491 827 950
Internet: www.fischer.co.uk

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

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
Classification according to Regulation (EC) No. 1272/2008
Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1; H317 STOT SE 3; H335

2.2 Label elements
Hazard pictogram

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

SECTION 3: Composition/information on ingredients

3.2 Mixtures

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>CAS No.: 65997-15-1 EC-No.: 266-043-4 REACH No.: The substance does not require registration according to Regulation (EC) No 1907/2006 [REACH].</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>CAS No.: 27813-02-1 EC-No.: 248-666-3 REACH No.: 01-2119490226-37</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: Take off immediately all contaminated clothing.
In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).
Wear personal protection equipment (refer to section 8).

If inhaled
Provide fresh air.
In case of respiratory tract irritation, consult a physician.

In case of skin contact
After contact with skin, wash immediately with plenty of water and soap.
Do NOT use solvents or thinners.

In case of eye contact
Remove contact lenses.
In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

If swallowed
If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.
Let water be drunken in little sips (dilution effect).
Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed
Symptoms
No information available.

4.3 Indication of any immediate medical attention and special treatment needed
Immediate medical attention
If unconscious place in recovery position and seek medical advice.

Special medical treatment
Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media
Suitable extinguishing media
spray mist, (water), Water spray jet, alcohol resistant foam, carbon dioxide, Extinguishing powder

Extinguishing media which must not be used for safety reasons
Full water jet

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

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

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

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

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

6.2 Environmental precautions

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

6.3 Methods and material for containment and cleaning up

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

6.4 Reference to other sections

Reference to other sections
Reference to other sections: 7 / 8 / 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling
Caution: During machining in cured state dust is formed.
Keep container tightly closed.
Hygiene measures: When using do not eat, drink or smoke. Wash hands before breaks and after work.
Take off contaminated clothing and wash it before reuse.

Advice on protection against fire and explosion
No special measures are necessary.

7.2 Conditions for safe storage, including any incompatibilities

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

Unsuitable materials for containers
Keep only in original container.
Hints on storage assembly
Keep away from food, drink and animal feedingstuffs.

German storage class
10 - 13 (TRGS 510)

Recommended storage temperature
+5 - 25 °C

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

<table>
<thead>
<tr>
<th>portland cement</th>
<th>Remarks</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Great Britain</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Long-term exposure value/ mg/m³</td>
<td>Remarks</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>inhalable dust</td>
<td>Company data</td>
</tr>
<tr>
<td>4</td>
<td>respirable dust</td>
<td>Company data</td>
</tr>
</tbody>
</table>

8.2 Exposure controls

Respiratory protection
Usually no personal respirative protection necessary.
In case of inadequate ventilation wear respiratory protection.

Hand protection
Health injuries are not known or expected under normal use. For pro-
longed or repeated contact use protective gloves. May cause sensitization
of susceptible persons by skin contact. Avoid contact with eyes and skin.

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

Unsuitable material
PVC or rubber gloves are not recommended.

Material thickness
adjust to application and duration of use

Break through time
> 120 min

Evaluation
-

Remarks
Take note of the information given by the producer concerning perme-
ability and break through times, and of special workplace conditions (me-
chanical strain, duration of contact).

Note
Replace when worn.

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

Skin and body protection
Long sleeved clothing

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

General protective and hygiene measures
Do not eat, drink or smoke when using this product.
Avoid contact with the skin and the eyes.
Wash hands and face before breaks and after work and take a shower if necessary.
Keep away from food, drink and animal feedingstuffs.
Use protective skin cream before handling the product.

Information on environmental protection regulations
No special environmental measures are necessary.
see section 6/7

Engineering measures
Provide adequate ventilation.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form
Paste

Colour
light grey

Odour
characteristic

Odour threshold
not determined

pH (min)
No data available

pH (max)
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
No data available

Upper limit
No data available

Vapour pressure [kPa]
No data available

Vapour density
No data available

Density [g/cm³]
1.7 - 1.8

Temperature
23 °C

Relative density
No data available

Solubility
No data available

Water solubility [g/l]
No data available

Solubility [g/l]
No data available

Partition coefficient n-octanol /water (log P O/W)
No data available
Autoinflammability: not auto-flammable
Decomposition temperature [°C]: No data available
Viscosity, dynamic [kg/(m*s)]: 150 - 190
Temperature: 23 °C
Explosive properties: not explosive.
Oxidising properties: No

SECTION 10: Stability and reactivity

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

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

10.3 Possibility of hazardous reactions
Hazardous reactions: No hazardous reaction when handled and stored according to provisions.

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

10.5 Incompatible materials
Materials to avoid: Strong acids and oxidizing agents

10.6 Hazardous decomposition products
Hazardous decomposition products: No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

<table>
<thead>
<tr>
<th>Hazardous ingredients</th>
<th>Value</th>
<th>Test criterion</th>
<th>Remarks</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>portland cement</td>
<td>&gt; 2000</td>
<td>LD50</td>
<td>literature value</td>
<td>Company data</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>2-hydroxypropyl methacrylate</th>
<th>Value</th>
<th>Test criterion</th>
<th>Test species</th>
<th>Remarks</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Dermal toxicity [mg/kg]

#### Hazardous ingredients

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Value</th>
<th>Test criterion</th>
<th>Test species</th>
<th>Remarks</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>portland cement</td>
<td>&gt; 2000</td>
<td>LD50</td>
<td>rabbit</td>
<td>Limit test 2000 mg/kg</td>
<td>Company data</td>
</tr>
<tr>
<td>2-hydroxypropyl methacrylate</td>
<td>&gt; 5000</td>
<td>LD50</td>
<td>rabbit</td>
<td></td>
<td>Company data</td>
</tr>
</tbody>
</table>

### Inhalative toxicity [mg/l]

#### Hazardous ingredients

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Value</th>
<th>Test criterion</th>
<th>Test species</th>
<th>Note</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>portland cement</td>
<td>&gt; 5</td>
<td>LC50</td>
<td>rat</td>
<td>Limit Test 5 g/m³</td>
<td>Company data</td>
</tr>
<tr>
<td>2-hydroxypropyl methacrylate</td>
<td>No data available</td>
<td></td>
<td></td>
<td></td>
<td>Company data</td>
</tr>
</tbody>
</table>

### Irritant effect on skin

#### Hazardous ingredients

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Value</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>portland cement</td>
<td>Irritant</td>
<td>Company data</td>
</tr>
<tr>
<td>2-hydroxypropyl methacrylate</td>
<td>No skin irritation</td>
<td>OECD Test Guideline 404, Company data</td>
</tr>
</tbody>
</table>

### Irritant effect on eyes

#### Hazardous ingredients

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Value</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>portland cement</td>
<td>Causes serious eye damage.</td>
<td>Company data</td>
</tr>
<tr>
<td>2-hydroxypropyl methacrylate</td>
<td>irritating</td>
<td>OECD 405, Company data</td>
</tr>
</tbody>
</table>

### Irritant effect on the respiratory tract

#### Hazardous ingredients

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Value</th>
<th>Measuring method</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-hydroxypropyl methacrylate</td>
<td></td>
<td></td>
<td>Company data</td>
</tr>
</tbody>
</table>
### Sensitization

#### Hazardous ingredients

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Value</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>portland cement</td>
<td>No sensitization responses were observed.</td>
<td>Company data</td>
</tr>
<tr>
<td>2-hydroxypropyl methacrylate</td>
<td>Skin sensitizer</td>
<td>Company data</td>
</tr>
</tbody>
</table>

### Carcinogenic effects

#### Hazardous ingredients

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Value</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>portland cement</td>
<td>Based on available data, the classification criteria are not met.</td>
<td>Company data</td>
</tr>
<tr>
<td>2-hydroxypropyl methacrylate</td>
<td>Not applicable.</td>
<td>Company data</td>
</tr>
</tbody>
</table>

### Mutagenicity

#### Hazardous ingredients

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Value</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>portland cement</td>
<td>Based on available data, the classification criteria are not met.</td>
<td>Company data</td>
</tr>
<tr>
<td>2-hydroxypropyl methacrylate</td>
<td>Not applicable.</td>
<td>Company data</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Value</th>
<th>Remarks</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not applicable.</td>
<td>OECD 471 (Ames Test) / OECD 476.</td>
<td>Company data</td>
</tr>
</tbody>
</table>

### Reproduction toxicity

#### Hazardous ingredients

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Value</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>portland cement</td>
<td>Based on available data, the classification criteria are not met.</td>
<td>Company data</td>
</tr>
<tr>
<td>2-hydroxypropyl methacrylate</td>
<td>Remarks</td>
<td>Source</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Not applicable.  
OECD 422  
Company data

Caustic effect

<table>
<thead>
<tr>
<th>Hazardous ingredients</th>
<th>Value</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>portland cement</td>
<td>Based on available data, the classification criteria are not met.</td>
<td>Company data</td>
</tr>
</tbody>
</table>

2-hydroxypropyl methacrylate

<table>
<thead>
<tr>
<th>Value</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not applicable.</td>
<td>Company data</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Hazardous ingredients</th>
<th>Specific effects</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>portland cement</td>
<td>Irritating to respiratory system. (dust)</td>
<td>Company data</td>
</tr>
</tbody>
</table>

2-hydroxypropyl methacrylate

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

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

<table>
<thead>
<tr>
<th>Hazardous ingredients</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>portland cement</td>
<td>*1)</td>
</tr>
</tbody>
</table>

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

2-hydroxypropyl methacrylate

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

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish [mg/l]

<table>
<thead>
<tr>
<th>Hazardous ingredients</th>
<th>Value</th>
<th>Test criterion</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>portland cement</td>
<td>&gt; 100</td>
<td>LC50</td>
<td>Company data</td>
</tr>
</tbody>
</table>

2-hydroxypropyl methacrylate

<table>
<thead>
<tr>
<th>Value</th>
<th>Test criterion</th>
<th>Test species</th>
<th>Measuring method</th>
<th>Exposure duration</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Toxicity to daphnia [mg/l]

#### Hazardous ingredients

<table>
<thead>
<tr>
<th>Hazardous ingredient</th>
<th>Value</th>
<th>Test criterion</th>
<th>Test species</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Portland cement</td>
<td>&gt; 100</td>
<td>LC50</td>
<td>Daphnia magna (Water flea)</td>
<td>Company data</td>
</tr>
</tbody>
</table>

#### 2-hydroxypropyl methacrylate

<table>
<thead>
<tr>
<th>Value</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; 130</td>
<td>EC50</td>
<td>Daphnia magna (Water flea)</td>
<td>48 h</td>
<td>OECD Test Guideline 202</td>
<td>Company data</td>
</tr>
</tbody>
</table>

### Toxicity to algae [mg/l]

#### Hazardous ingredients

<table>
<thead>
<tr>
<th>Hazardous ingredient</th>
<th>Value</th>
<th>Test criterion</th>
<th>Test species</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Portland cement</td>
<td>&gt; 100</td>
<td>EC50</td>
<td></td>
<td>Company data</td>
</tr>
</tbody>
</table>

#### 2-hydroxypropyl methacrylate

<table>
<thead>
<tr>
<th>Value</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; 97,2</td>
<td>EC50</td>
<td>Selenastrum capricornutum</td>
<td>72 h</td>
<td>OECD Test Guideline 201</td>
<td>Company data</td>
</tr>
</tbody>
</table>

### NOEC (daphnia) [mg/l]

#### Hazardous ingredients

<table>
<thead>
<tr>
<th>Hazardous ingredient</th>
<th>Value</th>
<th>Test criterion</th>
<th>Test species</th>
<th>Measuring method</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-hydroxypropyl methacrylate</td>
<td>24,1</td>
<td>NOEC</td>
<td>Daphnia magna (Big water flea)</td>
<td>OECD 202</td>
<td>Company data</td>
</tr>
</tbody>
</table>

### 12.2 Persistence and degradability

#### Biodegradability

<table>
<thead>
<tr>
<th>Hazardous ingredients</th>
<th>Value</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Portland cement</td>
<td>Not applicable. (inorganic)</td>
<td>Company data</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Hazardous ingredient</th>
<th>Value</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-hydroxypropyl methacrylate</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
12.3 Bioaccumulative potential

**Bioaccumulation**

<table>
<thead>
<tr>
<th>Hazardous ingredients</th>
<th>Value</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Portland cement</td>
<td>Not applicable. (inorganic)</td>
<td>Company data</td>
</tr>
<tr>
<td>2-hydroxypropyl methacrylate</td>
<td>No data available</td>
<td>Company data</td>
</tr>
</tbody>
</table>

12.4 Mobility in soil

**Mobility**

<table>
<thead>
<tr>
<th>Hazardous ingredients</th>
<th>Value</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Portland cement</td>
<td>Not applicable. (inorganic)</td>
<td>Company data</td>
</tr>
<tr>
<td>2-hydroxypropyl methacrylate</td>
<td>No data available</td>
<td>Company data</td>
</tr>
</tbody>
</table>

12.5 Results of PBT and vPvB assessment

**Results of PBT characteristics determination**

<table>
<thead>
<tr>
<th>Hazardous ingredients</th>
<th>Value</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Portland cement</td>
<td>Not applicable.</td>
<td>Company data</td>
</tr>
<tr>
<td>2-hydroxypropyl methacrylate</td>
<td>Not applicable.</td>
<td>Company data</td>
</tr>
</tbody>
</table>

**SECTION 13: Disposal considerations**

13.1 Waste treatment methods

Disposal considerations

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

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

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>Not applicable.</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

14.2 Description of the goods
14.3 Transport hazard class(es)
14.4 Packaging group
14.5 Environmental hazards
14.2 UN proper shipping name

14.6 Special precautions for user
Precautions: No special measures are necessary.

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

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
Decopaint regulation: not relevant
Carcinogenic hazardous substance as per Annex II GefStoffV: No
15.2 Chemical safety assessment

Safety assessment
For this preparation a chemical safety assessment has been carried out. This safety data sheet contains more than one ES in an integrated form. Contents of the exposure scenarios have been included into sections 1.2, 8, 9, 12, 15 and 16 of this safety data sheet.

Additional regulations

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
STOT SE: Specific target organ toxicity - single exposure
Skin Sens.: Skin sensitization
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>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>
</tbody>
</table>

Recommended restrictions
None under normal processing. Observe technical data sheet.
SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier
Commercial Product Name FIS SB 390 S - Component B (Curing agent)

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

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

Marketer Great Britain: Mrs Mirka Valovicova, fischer Fixing (UK) Ltd
Hithercroft Road
Wallingford, Oxfordshire, OX10 9AT
Telephone: +44 01491 827 920
FAX: +44 01491 827 950
Internet: www.fischer.co.uk

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

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
Classification according to Regulation (EC) No. 1272/2008
Skin Sens. 1; H317 Aquatic Chronic 2; H411

2.2 Label elements
Hazard pictogram

Signal word Warning
Hazardous component(s) to be indicated on label: dibenzoyl peroxide, 2-methylisothiazol-3(2H)-one

**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:** No information available.

**Particular information pertaining specific risk for human / environment:** No information available.

**Indication of danger:** No information available.

**Hazard precautions:** No information available.

### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

**Hazardous ingredients**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS No.</th>
<th>Classification (EC) 1272/2008</th>
<th>Concentration</th>
</tr>
</thead>
</table>
| ethanediol                  | CAS No.: 107-21-1  
EC-No.: 203-473-3  
Index-No.: 603-027-00-1  
REACH No.: 01-2119456816-28  
REACH No.: 01-2119511472-50 | Acute Tox. 4; H302 STOT RE 2; H373 | < 10.0 % by weight |
| dibenzoyl peroxide           | CAS No.: 94-36-0  
EC-No.: 202-327-6  
Index-No.: 617-008-00-0  
REACH No.: 01-2119511472-50 | Org. Perox. B; H241 Eye Irrit. 2; H319 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 | 2.5 - 10.0 % by weight |
| 2-methylisothiazol-3(2H)-one | CAS No.: 2682-20-4  
EC-No.: 220-239-6  
Index-No.: 613-326-00-9  
REACH No.: 01-2120764690-50 | Acute Tox. 3; H301 Acute Tox. 2; H330 Skin Corr. 1B; H314 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 2; H411 Skin Sens. 1A; H317 | < 0.01 % by weight |

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

**General advice:**
- Take off immediately all contaminated clothing.
- In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).
- Wear personal protection equipment (refer to section 8).
If inhaled
Provide fresh air.
In case of respiratory tract irritation, consult a physician.

In case of skin contact
After contact with skin, wash immediately with plenty of water and soap.
Do NOT use solvents or thinners.

In case of eye contact
Remove contact lenses.
In case of contact with eyes flush immediately with plenty of flowing wa-
ter for 10 to 15 minutes holding eyelids apart and consult an ophthalmol-
ogist.

If swallowed
If accidentally swallowed rinse the mouth with plenty of water (only if the
person is conscious) and obtain immediate medical attention.
Let water be drunken in little sips (dilution effect).
Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed
Symptoms
No information available.

4.3 Indication of any immediate medical attention and special treatment needed
Immediate medical attention
If unconscious place in recovery position and seek medical advice.

Special medical treatment
Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media
Suitable extinguishing media
spray mist, (water), Water spray jet, alcohol resistant foam, carbon diox-
ide, Extinguishing powder

Extinguishing media which must
not be used for safety reasons
Full water jet

5.2 Special hazards arising from the substance or mixture
Special exposure hazards arising
from the substance or prepara-
tion itself, its combustion prod-
ucts, or released gases
Heating or fire can release toxic gas.
Fight fire with normal precautions from a reasonable distance.

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

Additional information on fire-
fighting
Suppress (knock down) gases/vapours/mists with a water spray jet.
Do not allow water used to extinguish fire to enter drains, ground or wa-
terways.
SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

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

6.2 Environmental precautions

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

6.3 Methods and material for containment and cleaning up

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

6.4 Reference to other sections

Reference to other sections: Reference to other sections: 7 / 8 / 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling: Caution: During machining in cured state dust is formed.
Keep container tightly closed.
Hygiene measures: When using do not eat, drink or smoke. Wash hands before breaks and after work.
Take off contaminated clothing and wash it before reuse.

Advice on protection against fire and explosion: No special measures are necessary.

7.2 Conditions for safe storage, including any incompatibilities

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

Unsuitable materials for containers: Keep only in original container.

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

German storage class: 10 - 13 (TRGS 510)
**Recommended storage temperature**

+5 - 25 °C

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### ethanediol

<p>| Great Britain |<br />
|----------------|----------------|</p>
<table>
<thead>
<tr>
<th><strong>Long-term exposure value/ ppm</strong></th>
<th><strong>Short-term exposure value / ppm</strong></th>
<th><strong>Remarks</strong></th>
<th><strong>Note</strong></th>
<th><strong>Source</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>ethanediol</td>
<td>10</td>
<td>particulates only</td>
<td>Sk</td>
<td>EH40/2005 Workplace exposure limits (2011)</td>
</tr>
<tr>
<td>20</td>
<td>52</td>
<td>40</td>
<td>104</td>
<td>vapour</td>
</tr>
</tbody>
</table>

<p>| Europe |<br />
|----------------|----------------|</p>
<table>
<thead>
<tr>
<th><strong>Long-term exposure value/ mg/m3</strong></th>
<th><strong>Short-term exposure value / ppm</strong></th>
<th><strong>Note</strong></th>
<th><strong>Issuing date</strong></th>
<th><strong>Source</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Ethyl</strong></td>
<td>52</td>
<td>20</td>
<td>104</td>
<td>Skin</td>
</tr>
<tr>
<td><strong>Hand protection</strong></td>
<td>Usually no personal respiratory protection necessary.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>In case of inadequate ventilation wear respiratory protection.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Hand protection</strong></td>
<td>Health injuries are not known or expected under normal use. For prolonged or repeated contact use protective gloves. May cause sensitization of susceptible persons by skin contact. Avoid contact with eyes and skin.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Suitable material</strong></td>
<td>Protective gloves complying with EN 374. Butyl caoutchouc (butyl rubber), CR (polychloroprene, chloroprene rubber), NBR (Nitrile rubber), Fluorinated rubber</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Unsuitable material</strong></td>
<td>PVC or rubber gloves are not recommended.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Material thickness</strong></td>
<td>adjust to application and duration of use</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Break through time</strong></td>
<td>&gt; 120 min</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Evaluation</strong></td>
<td>-</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Remarks

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

Note

Replace when worn.

Eye protection

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

Skin and body protection

Long sleeved clothing

Note

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

General protective and hygiene measures

Do not eat, drink or smoke when using this product. Avoid contact with the skin and the eyes. Wash hands and face before breaks and after work and take a shower if necessary. Keep away from food, drink and animal feedingstuffs. Use protective skin cream before handling the product.

Information on environmental protection regulations

No special environmental measures are necessary. see section 6/7

Engineering measures

Provide adequate ventilation.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form

Paste

Colour

black

Odour

characteristic

Odour threshold

not determined

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

No data available

Upper limit

No data available

Vapour pressure [kPa]

No data available
Safety Data Sheet as per regulation (EC) 1907/2006
Commercial Product Name: FIS SB 390 S - Component B (Curing agent)
Article-No.: -
Revision date: 22.04.2020
Version: 1/en
Print date: 27.04.2020

Vapour density: No data available
Density [g/cm³]: 1.7 - 1.9
Temperature: 23 °C
Relative density: No data available
Solubility: No data available
Water solubility [g/l]: No data available
Solubility [g/l]: No data available
Partition coefficient n-octanol /water (log P O/W): No data available
Autoinflammability: not auto-flammable
Decomposition temperature [°C]: No data available
Viscosity, dynamic [kg/(m*s)]: 70 - 110
Temperature: 23 °C
Explosive properties: not explosive.
Oxidising properties: No

SECTION 10: Stability and reactivity

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

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

10.3 Possibility of hazardous reactions
Hazardous reactions: No hazardous reaction when handled and stored according to provisions.

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

10.5 Incompatible materials
Materials to avoid: Strong acids and oxidizing agents
10.6 Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

**Oral toxicity [mg/kg]**

<table>
<thead>
<tr>
<th>Hazardous ingredients</th>
<th>Value</th>
<th>Test criterion</th>
<th>Test species</th>
<th>Remarks</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>ethanediol</td>
<td>5840</td>
<td>LD50</td>
<td>Rat</td>
<td>*1)</td>
<td>Company data</td>
</tr>
</tbody>
</table>

*1): Harmonised (legal) classification. Harmful if swallowed.

<table>
<thead>
<tr>
<th>Ethanol</th>
<th>Value</th>
<th>Test criterion</th>
<th>Test species</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>600</td>
<td></td>
<td>LC50</td>
<td>Rat</td>
<td>Company data</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Dermal toxicity [mg/kg]</th>
</tr>
</thead>
</table>

**Irritant effect on skin**

<table>
<thead>
<tr>
<th>Hazardous ingredients</th>
<th>Value</th>
<th>Test criterion</th>
<th>Test species</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>ethanediol</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Inhalative toxicity [mg/l]</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Hazardous ingredients</th>
<th>Value</th>
<th>Test criterion</th>
<th>Test species</th>
<th>Exposure duration</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>ethanediol</td>
<td>&gt; 5</td>
<td>LC50</td>
<td>Rat</td>
<td>4 h</td>
<td>Company data</td>
</tr>
</tbody>
</table>

**dibenzoyl peroxide**

<table>
<thead>
<tr>
<th>Value</th>
<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>
<td>Company data</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>dibenzoyl peroxide</th>
<th>Value</th>
<th>Test criterion</th>
<th>Test species</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt; 24300</td>
<td>LC50</td>
<td>rat</td>
<td>Company data</td>
<td></td>
</tr>
<tr>
<td>Hazardous ingredients</td>
<td>Value</td>
<td>Source</td>
<td></td>
<td></td>
</tr>
<tr>
<td>-----------------------</td>
<td>----------------------------------------------------------------------</td>
<td>-------------------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ethanediol</td>
<td>Based on available data, the classification criteria are not met.</td>
<td>Company data</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sensitization</td>
<td>2-methylisothiazol-3(2H)-one</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Value</td>
<td>Measuring method: OECD 429, Test species: Mouse</td>
<td>Source</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Skin sensitisation</td>
<td></td>
<td>Company data</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Carcinogenic effects</td>
<td>Ethanediol</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Value</td>
<td>Contains no ingredient listed as a carcinogen</td>
<td>Company data</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mutagenicity</td>
<td>Ethanediol</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Value</td>
<td>Not applicable.</td>
<td>Company data</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reproduction toxicity</td>
<td>Ethanediol</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Value</td>
<td>Not applicable.</td>
<td>Company data</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Caustic effect</td>
<td>Ethanediol</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Value</td>
<td>No data available</td>
<td>Company data</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Specific target organ toxicity (single exposure) [mg/kg]

**Hazardous ingredients**

<table>
<thead>
<tr>
<th>ethanediol</th>
<th>Remarks</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>*1)</td>
<td>Company data</td>
</tr>
</tbody>
</table>

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

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

**Hazardous ingredients**

<table>
<thead>
<tr>
<th>ethanediol</th>
<th>Route of exposure</th>
<th>Organs affected</th>
<th>Specific effects</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Ingestion</td>
<td>Causes damage to kidneys if swallowed.</td>
<td>Causes damage to organs through prolonged or repeated exposure.</td>
<td>Company data</td>
</tr>
<tr>
<td></td>
<td>Skin contact</td>
<td>May cause damage to kidneys in contact with skin.</td>
<td>Causes damage to organs through prolonged or repeated exposure.</td>
<td>Company data</td>
</tr>
</tbody>
</table>

### SECTION 12: Ecological information

#### 12.1 Toxicity

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

**Hazardous ingredients**

<table>
<thead>
<tr>
<th>ethanediol</th>
<th>Value</th>
<th>Test criterion</th>
<th>Test species</th>
<th>Exposure duration</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>72860</td>
<td>LC50</td>
<td>Pimephales promelas (fathead minnow)</td>
<td>96 h</td>
<td>Company data</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>dibenzoyl peroxide</th>
<th>Value</th>
<th>Test criterion</th>
<th>Exposure duration</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0,06</td>
<td>LC50</td>
<td>96 h</td>
<td>Company data</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>2-methylisothiazol-3(2H)-one</th>
<th>Value</th>
<th>Test criterion</th>
<th>Test species</th>
<th>Measuring method</th>
<th>Exposure duration</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>30</td>
<td>LC50</td>
<td>Oncorhynchus mykiss (Rainbow trout)</td>
<td>OECD 203</td>
<td>96 h</td>
<td>Company data</td>
</tr>
</tbody>
</table>

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

**Hazardous ingredients**

<table>
<thead>
<tr>
<th>ethanediol</th>
<th>Value</th>
<th>Test criterion</th>
<th>Test species</th>
<th>Exposure duration</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Value</td>
<td>Test criterion</td>
<td>Test species</td>
<td>Exposure duration</td>
<td>Source</td>
<td></td>
</tr>
<tr>
<td>-------</td>
<td>----------------</td>
<td>--------------</td>
<td>-------------------</td>
<td>-----------------</td>
<td></td>
</tr>
<tr>
<td>&gt; 100</td>
<td>EC50</td>
<td>Daphnia magna (Water flea)</td>
<td>48 h</td>
<td>Company data</td>
<td></td>
</tr>
</tbody>
</table>

**dibenzoyl peroxide**

<table>
<thead>
<tr>
<th>Value</th>
<th>Test criterion</th>
<th>Test species</th>
<th>Exposure duration</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>0,11</td>
<td>EC50</td>
<td>Daphnia magna (Big water flea)</td>
<td>48 h</td>
<td>Company data</td>
</tr>
</tbody>
</table>

**2-methylisothiazol-3(2H)-one**

<table>
<thead>
<tr>
<th>Value</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>8,4</td>
<td>EC50</td>
<td>Daphnia magna (Big water flea)</td>
<td>48 h</td>
<td>OECD 202</td>
<td>Company data</td>
</tr>
</tbody>
</table>

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

Hazardous ingredients: ethanediol

<table>
<thead>
<tr>
<th>Value</th>
<th>Test criterion</th>
<th>Test species</th>
<th>Exposure duration</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt; 6500</td>
<td>EC50</td>
<td>Selenastrum capricornutum</td>
<td>96 h</td>
<td>Company data</td>
</tr>
</tbody>
</table>

**dibenzoyl peroxide**

<table>
<thead>
<tr>
<th>Value</th>
<th>Test criterion</th>
<th>Exposure duration</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>0,06</td>
<td>EC50</td>
<td>72 h</td>
<td>Company data</td>
</tr>
</tbody>
</table>

**2-methylisothiazol-3(2H)-one**

<table>
<thead>
<tr>
<th>Value</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>0,79</td>
<td>IC50: Pseudokirchneriella subcapitata</td>
<td>72 h</td>
<td>OECD 201</td>
<td>Company data</td>
<td></td>
</tr>
</tbody>
</table>

**NOEC (fish) [mg/l]**

Hazardous ingredients: ethanediol

<table>
<thead>
<tr>
<th>Value</th>
<th>Test criterion</th>
<th>Test species</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>15380</td>
<td>NOEC</td>
<td>Pimephales promelas (fathead minnow)</td>
<td>Company data</td>
</tr>
</tbody>
</table>

**2-methylisothiazol-3(2H)-one**

<table>
<thead>
<tr>
<th>Value</th>
<th>Test criterion</th>
<th>Test species</th>
<th>Measuring method</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>11,9</td>
<td>NOEC</td>
<td>Pimephales promelas (fathead minnow)</td>
<td>OECD 210</td>
<td>Company data</td>
</tr>
</tbody>
</table>
NOEC (daphnia) [mg/l] 1
  Test criterion NOEC
  Test species Daphnia magna (Big water flea)
  Duration of dosage 48 h
  Measuring method OECD 202
  Remarks Mixture related information (Experimental data)

NOEC (algae) [mg/l] 0.5
  Test criterion NOEC
  Test species Pseudokirchneriella subcapitata
  Duration of dosage 72 h
  Measuring method OECD 201
  Remarks Mixture related information (Experimental data)

12.2 Persistence and degradability

Biodegradability

<table>
<thead>
<tr>
<th>Hazardous ingredients</th>
<th>Remarks</th>
<th>Value</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>ethanediol</td>
<td>Readily biodegradable.</td>
<td>90 - 100%</td>
<td>Company data</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>2-methylisothiazol-3(2H)-one</th>
<th>Value</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Readily biodegradable.</td>
<td>Company data</td>
</tr>
</tbody>
</table>

12.3 Bioaccumulative potential

Bioaccumulation

<table>
<thead>
<tr>
<th>Hazardous ingredients</th>
<th>Value</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>ethanediol</td>
<td>Bioaccumulation is unlikely.</td>
<td>Company data</td>
</tr>
</tbody>
</table>

12.4 Mobility in soil

Mobility

<table>
<thead>
<tr>
<th>Hazardous ingredients</th>
<th>Value</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>ethanediol</td>
<td>Not applicable.</td>
<td>Company data</td>
</tr>
</tbody>
</table>
12.5 Results of PBT and vPvB assessment

Results of PBT characteristics determination

<table>
<thead>
<tr>
<th>Hazardous ingredients</th>
<th>Value</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>ethanediol</td>
<td>Not applicable.</td>
<td>Company data</td>
</tr>
</tbody>
</table>

SECTION 13: Disposal considerations

13.1 Waste treatment methods

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

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

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>
</tbody>
</table>

<table>
<thead>
<tr>
<th>14.2 Description of the goods</th>
<th>Land transport ADR/RID</th>
<th>Marine transport IMDG</th>
<th>Air transport ICAO/IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>No dangerous good according to ADR</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>14.3 Transport hazard class(es)</th>
<th>Land transport ADR/RID</th>
<th>Marine transport IMDG</th>
<th>Air transport ICAO/IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not applicable.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>14.4 Packaging group</th>
<th>Land transport ADR/RID</th>
<th>Marine transport IMDG</th>
<th>Air transport ICAO/IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not applicable.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>14.5 Environmental hazards</th>
<th>Land transport ADR/RID</th>
<th>Marine transport IMDG</th>
<th>Air transport ICAO/IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not applicable.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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)

<table>
<thead>
<tr>
<th>14.2 UN proper shipping name</th>
<th>Land transport ADR/RID</th>
<th>Marine transport IMDG</th>
<th>Air transport ICAO/IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non dangerous good</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Non dangerous good</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
14.6 Special precautions for user

Precautions No special measures are necessary.

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

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

SECTION 15: Regulatory information

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

Decopaint regulation not relevant
Carcinogenic hazardous substance as per Annex II GefStoffV No
Restriction of occupation. no restriction

15.2 Chemical safety assessment

Safety assessment For this preparation a chemical safety assessment has been carried out. This safety data sheet contains more than one ES in an integrated form. Contents of the exposure scenarios have been included into sections 1.2, 8, 9, 12, 15 and 16 of this safety data sheet.


SECTION 16: Other information

Relevant H-phrases

H241: Heating may cause a fire or explosion.
H301: Toxic if swallowed.
H302: Harmful if swallowed.
H314: Causes severe skin burns and eye damage.
H317: May cause an allergic skin reaction.
H318: Causes serious eye damage.
H319: Causes serious eye irritation.
H330: Fatal if inhaled.
H400: Very toxic to aquatic life.
H411: Toxic to aquatic life with long lasting effects.

Wording of the hazard classes Acute Tox.: Acute toxicity
### STOT RE: Specific target organ toxicity - repeated exposure
- **Eye Irrit.:** Serious eye irritation
- **Skin Sens.:** Skin sensitization
- **Aquatic Acute:** Hazardous to the aquatic environment
- **Aquatic Chronic:** Hazardous to the aquatic environment
- **Eye Dam.:** Serious eye damage

<table>
<thead>
<tr>
<th>Classification</th>
<th>Evaluation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin Sens. 1A; H317</td>
<td>Calculated</td>
</tr>
<tr>
<td>Aquatic Chronic 2; H411</td>
<td>Data obtained by expert judgment. Experimental data</td>
</tr>
</tbody>
</table>

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