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

1.1 Product identifier
Commercial Product Name fischer Reaction Capsule RM

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

1.3 Details of the supplier of the safety data sheet
Company designation fischerwerke GmbH & Co. KG
Weinhalde 14–18
D–72178 Waldachtal
Telephone: +49(0)7443 12–0
FAX: +49(0)7443 12–4222
Email: info–sdb@fischer.de

Marketer Great Britain: Mrs Mirka Valovicova, fischer Fixing (UK) Ltd, Hithcrocft Road, Wallingford, Oxfordshire, OX10 9AT, Tel. 01491 827 920, Fax 01491 827 950

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
Classification according to Directive 67/548/EEC / 1999/45/EEC R43

2.2 Label elements
Hazard pictogram

![GHS07]

Signal word Warning
Material Safety Data Sheet as per regulation (EC) 1907/2006
Commercial Product Name: fischer Reaction Capsule RM
Revision date: 25.07.2013 Version: 3/en Print date: 25.07.2013

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

H-statement(s)
H317: May cause an allergic skin reaction.

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.

SECTION 3: Composition/information on ingredients

Hazardous ingredients

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Classification (EEC) No 67/548</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quartz (SiO2)</td>
<td>Classification (EC) 1272/2008</td>
<td>2.5 – 10.0 % by weight</td>
</tr>
<tr>
<td>CAS No.: 14808–60–7</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EC-No.: 238–878–4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2-hydroxypropyl methacrylate</td>
<td>CAS No.: 27813–02–1</td>
<td>&lt; 2.5 % by weight</td>
</tr>
<tr>
<td>EC-No.: 248–666–3</td>
<td>R43 Xi; R36</td>
<td></td>
</tr>
<tr>
<td>Index-No.: 607–125–00–5</td>
<td>Eye Irrit. 2; H319 Skin Sens. 1; H317</td>
<td></td>
</tr>
</tbody>
</table>

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice
If symptoms persist, call a physician.
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
not applicable

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
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

Use personal protective equipment.

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

Not relevant for the product itself.

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

Handle with care. Avoid shock and friction.

None under normal processing.

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

Store in accordance with local regulations.

Keep only in original container.
Store in a cool and shaded area. Keep away from heat.

Hints on storage assembly
Not relevant

German storage class
10–13 (TRGS 510)

7.3 Specific end use(s)
Specific use(s) mounting material

Further information: see technical data sheet.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

8.2 Exposure controls
Respiratory protection No personal respiratory protective equipment normally required.
Hand protection No special protective equipment required.
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.

General protective and hygiene measures 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.

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 glass capsule
Colour brown
Odour characteristic
Odour threshold not determined
pH not applicable
Melting point [°C] not applicable
Boiling point [°C] not applicable
Flash point [°C] > 100 °C
Flammability No data available
Explosion limits [Vol-%]

- Lower limit: not determined
- Upper limit: not determined

Risk of explosion: Not explosive

Vapour pressure [kPa]: No data available

Water solubility [g/l]: insoluble

Partition coefficient n-octanol / water (log P O/W): Not applicable.

Autoignition temperature [°C]: not determined

Autoinflammability: not auto-flammable

SECTION 10: Stability and reactivity

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: No special technical protective measures required.

10.6 Hazardous decomposition products

Hazardous decomposition products: No decomposition if used as directed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

**Oral toxicity [mg/kg]**

<table>
<thead>
<tr>
<th>Value</th>
<th>Test criterion</th>
<th>Test species</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt; 5000</td>
<td>LD50</td>
<td>rat</td>
<td>2-hydroxypropyl methacrylate (CAS 27813-02-1)</td>
</tr>
</tbody>
</table>

**Dermal toxicity [mg/kg]**

<table>
<thead>
<tr>
<th>Value</th>
<th>Test criterion</th>
<th>Test species</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt; 5000</td>
<td>LD50</td>
<td>rabbit</td>
<td>2-hydroxypropyl methacrylate (CAS 27813-02-1)</td>
</tr>
</tbody>
</table>

- Irritant effect on skin: no data available
- Irritant effect on eyes: no data available
- Irritant effect on the respiratory tract: No data available
- Sensitization: no data available
11.2 Additional information
Other information (chapter 11.) The product itself has not been tested.

SECTION 12: Ecological information

12.1 Toxicity
Toxicity to fish [mg/l]

<table>
<thead>
<tr>
<th>Value</th>
<th>Test criterion</th>
<th>Test species</th>
<th>Duration of dosage</th>
<th>Measuring method</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>493</td>
<td>LC50</td>
<td>Leuciscus idus (Golden orfe)</td>
<td>48 h</td>
<td>DIN 38412</td>
<td>2-hydroxypropyl methacrylate (CAS 27813–02–1)</td>
</tr>
</tbody>
</table>

Toxicity to daphnia [mg/l]

<table>
<thead>
<tr>
<th>Value</th>
<th>Test criterion</th>
<th>Test species</th>
<th>Exposure duration</th>
<th>Measuring method</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>380</td>
<td>EC50</td>
<td>Daphnia magna (Water flea)</td>
<td>48 h</td>
<td>OECD Test Guide-line 202</td>
<td>2-hydroxypropyl methacrylate (CAS 27813–02–1)</td>
</tr>
</tbody>
</table>

Toxicity to algae [mg/l]

<table>
<thead>
<tr>
<th>Value</th>
<th>Test criterion</th>
<th>Test species</th>
<th>Exposure duration</th>
<th>Measuring method</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>345</td>
<td>EC50</td>
<td>Selenastrum capricornutum</td>
<td>72 h</td>
<td>OECD Test Guide-line 201</td>
<td>2-Hydroxypropyl-methacrylat (CAS 27813–02–1)</td>
</tr>
</tbody>
</table>

NOEC (Daphnie) [mg/l]

<table>
<thead>
<tr>
<th>Value</th>
<th>Duration of dosage</th>
<th>Test species</th>
<th>Measuring method</th>
<th>Test criterion</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>24,1</td>
<td>21 d</td>
<td>Daphnia magna (Big water flea)</td>
<td>OECD TG 202</td>
<td>NOEC</td>
<td>2-hydroxypropyl methacrylate (CAS 27813–02–1)</td>
</tr>
</tbody>
</table>

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

Biodegradability

Remarks: No data available

12.3 Bioaccumulative potential
Bioaccumulation no data available
Bioconcentration factor (BCF) No data available

12.4 Mobility in soil
Distribution in the environment No data available
Mobility

Mobility: No data available
12.5 Results of PBT and vPvB assessment
Results of PBT characteristics determination  This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).

12.6 Other adverse effects
Further information on ecology  No information on ecology is available. The product itself has not been tested.

SECTION 13: Disposal considerations

13.1 Waste treatment methods
Disposal considerations  Disposal together with normal waste is not allowed. Special disposal required according to local regulations.
The product should not be allowed to enter drains, water courses or the soil.

Waste Code  Product
200127 – paint, inks, adhesives and resins containing dangerous substances
080000 – WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
080400 – wastes from MFSU of adhesives and sealants (including waterproofing products)
080409 – waste adhesives and sealants containing organic solvents or other dangerous substances cured material
200000 – MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS

Uncleaned empty packaging  Empty packaging: Empty containers should be taken for local recycling or waste disposal.

SECTION 14: Transport information

<table>
<thead>
<tr>
<th>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>No dangerous good according to IMDG</td>
<td>No dangerous good according to IATA</td>
<td></td>
</tr>
</tbody>
</table>

14.8 Additional information
Other information (chapter 14.)  Not dangerous goods in the meaning of ADR/RID, ADNR, IMDG–Code, ICAO/IATA–DGR
SECTION 15: Regulatory information

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

SECTION 16: Other information

Relevant R-phrases R36: Irritating to eyes.
R43: May cause sensitisation by skin contact.

Relevant H-phrases H317: May cause an allergic skin reaction.
H319: Causes serious eye irritation.

Wording of the hazard classes Skin Sens.: Skin sensitization
Eye Irrit.: Serious eye irritation

Classification for mixtures and used evaluation method according to regulation (EC) 1207/2008 [CLP]

<table>
<thead>
<tr>
<th>Classification</th>
<th>Evaluation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin Sens. 1: H317</td>
<td>Calculated</td>
</tr>
</tbody>
</table>

Recommended restrictions None under normal processing.

This information is provided in accordance with the current status of our knowledge and experience. The Safety Data Sheet describes products with a view to relevant safety requirements. This information does not constitute a warranty of properties, features or qualities.