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

1.1 Product identifier
Commercial Product Name: FBB Firestop Block

1.2 Relevant identified uses of the substance or mixture and uses advised against
Relevant identified uses: 2K PU foam with flame retardant
Recommended restrictions: None under normal processing.

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

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: This product is classified as not hazardous according to regulation (EC) 1272/2008 [CLP].
Classification according to Directive 67/548/EEC / 1999/45/EEC: This product is not classified as dangerous according to 67/548/EEC / 1999/45/EEC.

2.2 Label elements
Further information: There is no requirement for the product to be specially labelled according to EC directives or the corresponding national laws.

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>4,4’-methylene diphenyl diisocyanate, isomers and homologues</td>
<td>Carc.Cat.3; R40 R42/43 Xn; R20–48/20 Xi; R36/37/38</td>
<td>10.0 – 15.0 % by weight</td>
</tr>
<tr>
<td></td>
<td>Resp. Sens. 1; H334 Carc. 2; H351 STOT RE 2; H373 Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317 STOT SE 3; H335</td>
<td></td>
</tr>
</tbody>
</table>

CAS No.: 9016–87–9
REACH No.: 01-2119457024-46
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 No data available

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. Container may rupture on heating.

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.

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
- keine

SECTION 8: Exposure controls/personal protection

8.1 Control parameters
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

8.2 Exposure controls

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: Replace when worn. Request information on glove permeation properties from the glove supplier. Be aware that in daily use the durability of a chemical resistant protective glove can be notably shorter than the break through time measured according to EN 374, due to the numerous outside influences (e.g. temperature).

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.
  - 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: mould
Colour: grey
Odour: odourless

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: None known.

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

4,4’-methylene diphenyl diisocyanate, isomers and homologues

<table>
<thead>
<tr>
<th>Oral toxicity [mg/kg]</th>
<th>Test criterion</th>
<th>Test species</th>
<th>Remarks</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt; 5000</td>
<td>LD50</td>
<td>rat</td>
<td>OECD 423</td>
<td>100</td>
</tr>
<tr>
<td>Source: 100 – 100</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Dermal toxicity [mg/kg]</th>
<th>Test criterion</th>
<th>Test species</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt; 5000</td>
<td>LD50</td>
<td>rabbit</td>
<td>100</td>
</tr>
<tr>
<td>Source: 100 – 100</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Inhalative toxicity [mg/l]</th>
<th>Test criterion</th>
<th>Exposure duration</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,5</td>
<td>LC50</td>
<td>4 h</td>
<td>100</td>
</tr>
<tr>
<td>Source: 100 – 100</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Irritant effect on the respiratory tract
Irritant effect on skin
No skin irritation
Irritant effect on eyes
No eye irritation
Sensitization
No known effect.

11.2 Additional information
Other information (chapter 11.)
There is no data available for this product.

SECTION 12: Ecological information

12.1 Toxicity

Hazardous ingredients

4,4’-methylene diphenyl diisocyanate, isomers and homologues

<table>
<thead>
<tr>
<th>Toxicity to fish [mg/l]</th>
<th>Test criterion</th>
<th>Test species</th>
<th>Measuring method</th>
<th>Exposure duration</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt; 100</td>
<td>LC50</td>
<td>Brachydanio rerio (zebra fish)</td>
<td>OECD Test Guideline 203</td>
<td>96 h</td>
<td>100</td>
</tr>
</tbody>
</table>

Source: 100 – 100

<table>
<thead>
<tr>
<th>Toxicity to daphnia [mg/l]</th>
<th>Test criterion</th>
<th>Test species</th>
<th>Exposure duration</th>
<th>Measuring method</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt; 1000</td>
<td>EC50</td>
<td>Daphnia magna (Water flea)</td>
<td>24 h</td>
<td>OECD Test Guideline 202</td>
<td>100</td>
</tr>
</tbody>
</table>

Source: 100 – 100

<table>
<thead>
<tr>
<th>Toxicity to algae [mg/l]</th>
<th>Test criterion</th>
<th>Test species</th>
<th>Exposure duration</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt; 1640</td>
<td>ErC50: Scenedesmus subspicatus</td>
<td>72 h</td>
<td></td>
<td>100</td>
</tr>
</tbody>
</table>

Source: 100 – 100

<table>
<thead>
<tr>
<th>NOEC (daphnia) [mg/l]</th>
<th>Test species</th>
<th>Measuring method</th>
<th>Exposure duration</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt; 10</td>
<td>Daphnia magna (Big water flea)</td>
<td>OECD 202</td>
<td>21 d</td>
<td>100</td>
</tr>
</tbody>
</table>

Source: 100 – 100

Aquatic toxicity [mg/l]
There are no data available on the mixture itself.

12.2 Persistence and degradability

Biodegradability

Remarks:
No data available

12.3 Bioaccumulative potential

Bioaccumulation
No data available
12.4 Mobility in soil
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.

SECTION 13: Disposal considerations

13.1 Waste treatment methods
Disposal considerations
Dispose of waste according to applicable legislation.
The product should not be allowed to enter drains, water courses or the soil.

Waste Code
The following Waste Codes are only suggestions:
200000 – MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS
According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.

Uncleaned empty packaging
Dispose of as unused product.

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>

<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>Non–dangerous goods</td>
<td>Non–dangerous goods</td>
<td>Non–dangerous goods</td>
<td></td>
</tr>
</tbody>
</table>

<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>Non dangerous good</td>
<td>Non dangerous good</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>Not applicable.</td>
<td>Not applicable.</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>Not applicable.</td>
<td>Not applicable.</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>Not applicable.</td>
<td>Not applicable.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>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>Non dangerous good</td>
<td>Non dangerous good</td>
<td></td>
</tr>
</tbody>
</table>

14.6 Special precautions for user
Precautions not required under normal use
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: not applicable

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

<table>
<thead>
<tr>
<th>Relevant R–phrases</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>R20: Harmful by inhalation.</td>
<td></td>
</tr>
<tr>
<td>R22: Harmful if swallowed.</td>
<td></td>
</tr>
<tr>
<td>R36: Irritating to eyes.</td>
<td></td>
</tr>
<tr>
<td>R36/37/38: Irritating to eyes, respiratory system and skin.</td>
<td></td>
</tr>
<tr>
<td>R40: Limited evidence of a carcinogenic effect.</td>
<td></td>
</tr>
<tr>
<td>R42/43: May cause sensitisation by inhalation and skin contact.</td>
<td></td>
</tr>
<tr>
<td>R48/20: Harmful: danger of serious damage to health by prolonged exposure through inhalation.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Relevant H–phrases</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>H302: Harmful if swallowed.</td>
<td></td>
</tr>
<tr>
<td>H315: Causes skin irritation.</td>
<td></td>
</tr>
<tr>
<td>H317: May cause an allergic skin reaction.</td>
<td></td>
</tr>
<tr>
<td>H319: Causes serious eye irritation.</td>
<td></td>
</tr>
<tr>
<td>H332: Harmful if inhaled.</td>
<td></td>
</tr>
<tr>
<td>H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.</td>
<td></td>
</tr>
<tr>
<td>H335: May cause respiratory irritation.</td>
<td></td>
</tr>
<tr>
<td>H351: Suspected of causing cancer.</td>
<td></td>
</tr>
<tr>
<td>H373: May cause damage to organs through prolonged or repeated exposure.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Wording of the hazard classes</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Resp. Sens.: Respiratory sensitization</td>
<td></td>
</tr>
<tr>
<td>Carc.: Carcinogenicity</td>
<td></td>
</tr>
<tr>
<td>STOT RE: Specific target organ toxicity – repeated exposure</td>
<td></td>
</tr>
<tr>
<td>Acute Tox.: Acute toxicity</td>
<td></td>
</tr>
<tr>
<td>Skin Irrit.: Skin irritation</td>
<td></td>
</tr>
<tr>
<td>Eye Irrit.: Serious eye irritation</td>
<td></td>
</tr>
<tr>
<td>Skin Sens.: Skin sensitization</td>
<td></td>
</tr>
<tr>
<td>STOT SE: Specific target organ toxicity – single exposure</td>
<td></td>
</tr>
</tbody>
</table>
Recommended restrictions  None under normal processing.