

# FF102B

## Safety Data Sheet

according to the New Zealand, Hazardous Substances and New Organisms Act 1996 (HSNO Act) and Regulations, as amended.

Version: First issued May 2006

Revision Date: 5<sup>th</sup> October 2016



### Section 1: Identification of the substance/mixture and of the company/undertaking

|     |   |
|-----|---|
| 1.1 | <b>Product Identifier</b><br><br>FF102B   |
| 1.2 | <b>Relevant identified uses of the substance or mixture and uses advised against</b><br><br>Expands when heated to act as a fire stop. Main application is in fire protection.  |
| 1.3 | <b>Details of the supplier of the safety data sheet</b><br><br><b>TENMAT Limited</b><br>Ashburton Road West<br>Trafford Park<br>Manchester M17 1TD<br>United Kingdom<br><br>Tel: +44 (0)161 872 2181<br>Fax: +44 (0)161 872 7596<br>Email: <a href="mailto:christopher.clarke@tenmat.com">christopher.clarke@tenmat.com</a> |
| 1.4 | <b>Emergency telephone number</b><br><br>+New Zealand National Poisons Centre,<br>0800 764 766 (0800 POISON)  |

### Section 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]:**

The product is not classified according to CLP regulation.

**Classification according to Directive 67/548/EEC or 1999/45/EC:**

Not classified.

#### 2.2 Label elements

**Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]:**

The product has not been classified and marked in accordance with Regulation (EC) No 1272/2008.

**Supplemental hazard information (EU):**

These products contain low bio-persistence mineral fibres.

## FF102B

### Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH)

Version: First issued May 2006

Revision Date: 5<sup>th</sup> October 2016



These products are not hazardous in the form in which they are shipped by the manufacturer.

However, they may produce low levels of fibre-containing dust as a result of downstream activities such as cutting.

These products contain graphite which is not recommended for electrical purposes. Note that dust from these products may compromise the integrity of electrical or electronic equipment.

#### 2.3 Other hazards

Mild mechanical irritation to skin, eyes and upper respiratory system may result from exposure, however any effects are usually temporary.

### Section 3: Composition/information on ingredients

These products are made from varying amounts of low bio-persistence mineral fibres, graphite, organic fibres and binders.

### Section 4: First Aid Measures

|     |  |
|-----|--|
| 4.1 | <p><b>Description of First Aid Measures</b></p> <p><b>General Information:</b><br/>The main hazards arise from downstream activities such as cutting.</p> <p><b>Following Inhalation:</b><br/>Avoid breathing dust. If breathing difficulties are experienced whilst cutting, remove to fresh air or a ventilated area and seek medical advice.</p> <p><b>Following Skin Contact:</b><br/>If possible, vacuum excessive dust from clothes as well as skin and hair. Wash and clean contaminated skin with soap and clean water. Clothes should be washed professionally.</p> <p><b>Following Eye Contact:</b><br/>In case of eye contact, irrigate abundantly with water. Seek medical attention.</p> <p><b>Following Ingestion:</b><br/>If small quantities are ingested, seek medical advice.</p> <p><b>Self-Protection for First Aider:</b><br/>Wear suitable personal protective equipment to avoid inhaling dust.</p> |
|-----|--|

# FF102B

## Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH)

Version: First issued May 2006

Revision Date: 5<sup>th</sup> October 2016



---

|            |  |
|------------|--|
| <b>4.2</b> | <b>Most Important Symptoms and Effects, both Acute and Delayed</b><br><br><b>Symptoms:</b><br>No symptoms expected.<br><br><b>Effects:</b><br>No effects expected.                     |
| <b>4.3</b> | <b>Indication of any Immediate Medical Attention and Special Treatment Needed</b><br><br><b>Notes for Doctor:</b><br>None required.<br><br><b>Special Treatment:</b><br>None required. |

---

### Section 5: Fire-fighting measures

|            |   |
|------------|---|
| <b>5.1</b> | <b>Extinguishing media</b><br><br><b>Suitable extinguishing media:</b><br>Not flammable.<br><br><b>Unsuitable extinguishing media:</b><br>Not applicable. |
| <b>5.2</b> | <b>Special hazards arising from the substance or mixture</b><br><br><b>Hazardous combustion products:</b><br>None.  |
| <b>5.3</b> | <b>Advice for fire-fighters</b><br>None required.   |

---

### Section 6: Accidental release measures

|            |   |
|------------|---|
| <b>6.1</b> | <b>Personal precautions, protective equipment and emergency procedures</b><br><br><b>For non-emergency personnel:</b><br>Avoid inhaling dust.<br><br><b>Protective equipment:</b><br>Protective clothing should be provided for operators along with protective equipment shown |
|------------|---|

## FF102B

### Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH)

Version: First issued May 2006

Revision Date: 5<sup>th</sup> October 2016



|     |   |
|-----|---|
|     | <p>in Section 8.</p> <p><b>Emergency procedures:</b><br/>None required.</p> <p><b>For emergency responders:</b><br/>Avoid inhaling dust.</p> <p><b>Personal protective equipment:</b><br/>Protective clothing should be provided along with protective equipment shown in section 8.</p>  |
| 6.2 | <p><b>Environmental precautions</b><br/>Remove dust by using a vacuum cleaner fitted with 'H' type filters. Where vacuum cleaning is not possible, dampen down dust and collect whilst still damp. Suitable bags are required for disposal.</p> <p>Dust should be packaged into impermeable plastic sacks which should be sealed. Such waste should then be disposed of according to local regulations.</p>   |
| 6.3 | <p><b>Methods and materials for containment and cleaning up</b></p> <p><b>For containment:</b><br/>Dampen down any dust spillages as soon as possible and collect whilst still damp.</p> <p><b>For cleaning up:</b><br/>Remove dust using vacuum with 'H' type filters and suitable bags for containment.</p> <p>Dust should be packaged into impermeable plastic sacks which should be sealed. Such waste should then be disposed of according to local regulations.</p> |
| 6.4 | <p><b>Reference to other sections</b><br/>Section 7 for Handling and Storage and Section 8 for Protective Equipment.</p>  |

## Section 7: Handling and storage

|     |  |
|-----|--|
| 7.1 | <p><b>Precautions for safe handling</b></p> <p><b>Protective measures:</b><br/>No special protective measures are normally required.</p> <p><b>Advice on safe handling:</b><br/>Normal safe precautions for handling can be employed.</p> <p><b>Fire prevention:</b><br/>Products are not flammable.</p> <p><b>Aerosol and dust generation prevention:</b></p> |
|-----|--|

# FF102B

## Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH)

Version: First issued May 2006

Revision Date: 5<sup>th</sup> October 2016



|     |   |
|-----|---|
|     | <p>Small amounts of dust may be generated if products are allowed to abrade against each other.</p> <p><b>Environmental precautions:</b><br/>No special precautions are required.</p> <p><b>Advice on general occupational hygiene:</b><br/>Wear protective clothing.</p>   |
| 7.2 | <p><b>Conditions for safe storage, including any incompatibilities</b></p> <p><b>Technical measures and storage conditions:</b><br/>Both un-cut and cut products should be packed to prevent movement and abrasion during transit and to prevent absorption of water.</p> <p>Otherwise normal safe precautions for storage can be used.</p> <p>To avoid damage and distortion, store on a smooth level surface, in a fully supported position off the ground and in a dry place.</p> <p><b>Packaging materials:</b><br/>Card cartons.</p> <p><b>Requirements for storage rooms and vessels:</b><br/>Dry location.</p> <p><b>Hints on storage assembly:</b><br/>FF102B is not considered to be a dense material but care should be taken not to exceed safe working loads for equipment and storage shelves or racks.</p> <p><b>Storage class:</b><br/>N/A</p> <p><b>Materials to avoid:</b><br/>No special requirements.</p> <p><b>Further information on storage conditions:</b><br/>N/A</p> |
| 7.3 | <p><b>Specific end uses</b></p> <p><b>Recommendations:</b><br/>N/A</p> <p><b>Specific end uses:</b><br/>See references to dust hazards during cutting, Section 4.</p>   |

# FF102B

## Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH)

Version: First issued May 2006

Revision Date: 5<sup>th</sup> October 2016



### Section 8: Exposure controls/personal protection

|            |  |
|------------|--|
| <b>8.1</b> | <b>Control Parameters</b><br>Reference should be made to local and country-specific occupational exposure limits for dust and low bio-persistence mineral fibres.<br><br>UK monitoring methods can be found as follows:<br><br>MDHS 59 – Machine-made fibres airborne number concentration and classification by phase contrast light microscopy.<br><br>NIOSH 0500 – Particulates not otherwise regulated, total.<br>NIOSH 0600 – Particulates not otherwise regulated, respirable.<br>NIOSH 7400 – Asbestos and other fibres by PCM. |
| <b>8.2</b> | <b>Exposure Controls</b><br>Fit and use appropriate local exhaust ventilation systems for cutting and machining operations.<br><br>Use appropriate personal protective equipment to avoid dust inhalation.<br><br>Maintain a clean workspace using a vacuum cleaner.<br><br>MEL/OES Low bio-persistence mineral fibres 5 mg/m <sup>3</sup> 8 hr TWA (MEL)  |

### Section 9: Physical and chemical properties

#### 9.1 Information on Basic Physical and Chemical Properties

|   |   |
|---|---|
| <b>Physical State</b>                               | Solid material  |
| <b>Appearance</b>                                   | Rigid sheet   |
| <b>Colour</b>                                       | Yellow / Beige  |
| <b>Odour</b>  | N/A   |
| <b>Odour threshold</b>                              | N/A   |
| <b>pH</b>   | N/A   |
| <b>Melting/Freezing Point</b>                       | N/A but see Tenmat Technical Brochure for maximum working temperatures. |
| <b>Boiling point</b>                                | N/A   |
| <b>Flash point</b>                                  | N/A   |
| <b>Evaporation rate</b>                             | N/A   |
| <b>Flammability (solid, gas)</b>                    | N/A   |
| <b>Upper/lower flammability or explosive limits</b> | N/A   |
| <b>Upper explosive limit</b>                        | N/A   |
| <b>Lower explosive limit</b>                        | N/A   |

## FF102B

### Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH)

Version: First issued May 2006

Revision Date: 5<sup>th</sup> October 2016



---

|  |                       |
|--|-----------------------|
| <b>Vapour pressure</b>                       | N/A                   |
| <b>Vapour density</b>                        | N/A                   |
| <b>Relative density</b>                      | 900 kg/m <sup>3</sup> |
| <b>Solubility</b>                            | Not soluble in water. |
| <b>Partition coefficient n-octanol/water</b> | N/A                   |
| <b>Auto-ignition temperature</b>             | N/A                   |
| <b>Decomposition temperature</b>             | N/A                   |
| <b>Dynamic viscosity</b>                     | N/A                   |
| <b>Kinematic viscosity</b>                   | N/A                   |
| <b>Explosive properties</b>                  | N/A                   |
| <b>Oxidising properties</b>                  | N/A                   |

---

## Section 10: Stability and Reactivity

|             |   |
|-------------|---|
| <b>10.1</b> | <b>Reactivity</b><br>Stable and non-reactive.     |
| <b>10.2</b> | <b>Chemical Stability</b><br>Stable and inert.    |
| <b>10.3</b> | <b>Possibility of Hazardous Reaction</b><br>None. |
| <b>10.4</b> | <b>Conditions to Avoid</b><br>None.               |
| <b>10.5</b> | <b>Incompatible Materials</b><br>None.            |
| <b>10.6</b> | <b>Hazardous Decomposition Products</b><br>None.  |

---

## Section 11: Toxicological Information

### 11.1 Information on Toxicological Effects

Exposure is mainly due to low levels of dusts generated during downstream activities such as cutting.

Low bio-persistence mineral fibres as used in these products have been developed to be quickly and effectively cleared from lung tissues.

# FF102B

## Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH)

Version: First issued May 2006

Revision Date: 5<sup>th</sup> October 2016



### Acute Effects

|                                  |                             |
|----------------------------------|-----------------------------|
| <b>Acute Inhalation Toxicity</b> | Nose and throat irritation. |
| <b>Skin Irritation</b>           | Mild irritation.            |
| <b>Eye Irritation</b>            | Irritation.                 |

### Chronic Effects

|  |  |
|--|--|
| <b>Respiratory or Skin Sensitisation</b> | Irritation of both the respiratory tract and skin is by mechanical means and is not the result of an allergic reaction or chemical damage. |
|--|--|

## Section 12: Ecological Information

|             |   |
|-------------|---|
| <b>12.1</b> | <b>Toxicity</b><br>FF102B is insoluble in water and remains stable over time. The major constituents are similar in their chemical composition to naturally occurring materials and minerals. |
| <b>12.2</b> | <b>Persistence and Degradability</b><br>Not established.  |
| <b>12.3</b> | <b>Bio-accumulative Potential</b><br>Not established.   |
| <b>12.4</b> | <b>Mobility in Soil</b><br>No information available.  |
| <b>12.5</b> | <b>Results of PBT and vPvB Assessment</b><br>These products do not contain substances that are considered as either PBT or vPvB.  |
| <b>12.6</b> | <b>Other Adverse Effects</b><br>No other additional information available.  |

## Section 13: Disposal Considerations

|             |   |
|-------------|---|
| <b>13.1</b> | <b>Waste Treatment Methods</b><br><br><b>Product/Packaging Disposal:</b><br>Packaging can be cleaned and recycled.<br><br><b>Waste Treatment Options:</b><br>Waste from these products may be disposed of in landfill according to local regulations. |
|-------------|---|



## FF102B

### Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH)

Version: First issued May 2006

Revision Date: 5<sup>th</sup> October 2016



#### Section 14: Transport Information

|      |  |
|------|--|
| 14.1 | <b>UN Number</b><br>Product is not dangerous according to current transport regulations. |
| 14.2 | <b>UN Proper Shipping Name</b><br>N/A  |
| 14.3 | <b>Transport Hazard Class(es)</b><br>N/A   |
| 14.4 | <b>Packing Group</b><br>N/A  |
| 14.5 | <b>Environmental Hazards</b><br>N/A  |
| 14.6 | <b>Special Precautions for User</b><br>N/A   |
| 14.7 | <b>Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code</b><br>N/A   |

#### Section 15: Regulatory Information

|      |  |
|------|--|
| 15.1 | <b>Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture</b><br><br><b>EU Regulations</b><br>Regulation (EC) No 1272/2008, 20 <sup>th</sup> January 2009, on Classification, Labelling and Packaging of Substances and Mixtures (OJL 353).<br><br>The 7 <sup>th</sup> Adaption of Technical Progress (ATP) to Regulation (EC) No 1272/2008 was published on 15 <sup>th</sup> July 2015.<br><br><b>Worker Protection</b><br>In accordance with the following directives and their amendments:<br><br>Council Directive 89/391/EEC, 12 <sup>th</sup> June 1989 on the Introduction of measures to encourage improvements in the health and safety of workers at work.<br><br>Council Directive 98/24/EC, 7 <sup>th</sup> April 1998 on the Protection of workers from the risks related to chemical agents at work. |
| 15.2 | <b>Chemical Safety Assessment</b>  |

**FF102B****Safety Data Sheet**

according to Regulation (EC) No 1907/2006 (REACH)

Version: First issued May 2006

Revision Date: 5<sup>th</sup> October 2016

---

|  |                       |
|--|-----------------------|
|  | Available on request. |
|--|-----------------------|

---

**Section 16: Other Information**

|             |  |
|-------------|--|
| <b>16.1</b> | <b>Indication of Changes</b><br>All sections updated 5 <sup>th</sup> October 2016.   |
| <b>16.2</b> | <b>Abbreviations and Acronyms</b><br>None used.  |
| <b>16.3</b> | <b>Key Literature References and Sources of Data</b><br>See main sections.   |
| <b>16.4</b> | <b>Classification for Mixtures and Used Evaluation Method According to Regulation (EC) 1207/2008 [CLP]</b><br>See Section 2. |
| <b>16.5</b> | <b>Relevant R-, H- and EUH Phrases (Number and Text)</b><br>N/A  |
| <b>16.6</b> | <b>Training Advice</b><br>See Tenmat Firefly Products Technical Brochure for information on use.                             |
| <b>16.7</b> | <b>Further Information</b><br>For further information, visit <a href="http://www.tenmat.com">www.tenmat.com</a>              |