



**TENMAT**

Safety Data Sheet  
according to Regulation (EC) No 1907/2006 (REACH)

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Trade Name: **Firefly Millboard - FF 650, FF 700, FF 707, FF 800, FF 900, FF 907, FF 1125**

Version: First issued April 2004

Revision Date: 8<sup>th</sup> June 2016

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

<b>1.1</b>	<b>Product Identifier</b>  Non-asbestos millboard  FF 650, FF 700, FF 707, FF 800, FF 900, FF 907, FF1125
<b>1.2</b>	<b>Relevant identified uses of the substance or mixture and uses advised against</b>  Wide range of applications such as thermal insulation, heat shields and gaskets in high temperature industrial processes and heating systems.
<b>1.3</b>	<b>Details of the supplier of the safety data sheet</b>  <b>TENMAT Limited</b> Ashburton Road West Trafford Park Manchester M17 1TD United Kingdom  Tel: +44 (0)161 872 2181 Fax: +44 (0)161 872 7596 Email: <a href="mailto:sales@tenmat.com">sales@tenmat.com</a>
<b>1.4</b>	<b>Emergency telephone number</b>  +44 (0)161 872 2181 +44 (0)161 955 2446 (24 hours)

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## **Section 2: Hazards identification**

### **2.1 Classification of the substance or mixture**

**Classification according to Regulation (EC) No 1272/2008 [CLP]:**  
Not classified.

**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]:**  
Not applicable.

#### **Supplemental hazard information (EU):**

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

However, they may low levels of dust as a result of downstream activities (eg, cutting) that contains low bio-persistence mineral fibres and small amounts of quartz.

FF grades 650, 700, 707, 800, 900 & 907 may contain minimal amounts of quartz as an impurity in a clay raw material.

These products do not contain substances that meet the criteria for PBT or vPvB according to Annex XIII of REACH.

### **2.3 Other hazards**

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

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## **Section 3: Composition/information on ingredients**

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



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## Section 4: First Aid Measures

### 4.1 Description of first aid measures

4.1	<p><b>Description of First Aid Measures</b></p> <p><b>General Information:</b> The main hazards arise from downstream activities such as cutting and machining.</p> <p><b>Following Inhalation:</b> Avoid breathing dust. If breathing difficulties are experienced whilst machining, remove to fresh air or a ventilated area and seek medical advice.</p> <p><b>Following Skin Contact:</b> 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> In case of eye contact, Irrigate abundantly with water. Seek medical attention.</p> <p><b>Following Ingestion:</b> If small quantities are ingested, seek medical advice.</p> <p><b>Self-Protection for First Aider:</b> Wear suitable personal protective equipment to avoid inhaling dust.</p>
4.2	<p><b>Most Important Symptoms and Effects, both Acute and Delayed</b></p> <p><b>Symptoms:</b> No symptoms expected.</p> <p><b>Effects:</b> No effects expected.</p>
4.3	<p><b>Indication of any Immediate Medical Attention and Special Treatment Needed</b></p> <p><b>Notes for doctor:</b> None required</p> <p><b>Special Treatment:</b> None required.</p>



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## Section 5: Fire-fighting measures

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

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## Section 6: Accidental release measures

<b>6.1</b>	<p><b>Personal precautions, protective equipment and emergency procedures</b></p> <p><b>For non-emergency personnel:</b> Avoid inhaling dust.</p> <p><b>Protective equipment:</b> Protective clothing should be provided for operators along with protective equipment shown in Section 8.</p> <p><b>Emergency procedures:</b></p> <p><b>For emergency responders:</b> Avoid inhaling dust.</p> <p><b>Personal protective equipment:</b> Protective clothing should be provided along with protective equipment shown in Section 8.</p>
<b>6.2</b>	<p><b>Environmental precautions</b> Prevent spread of dust by dampening any dust spillages. Check local regulations before rinsing or flushing to drain.</p>
<b>6.3</b>	<p><b>Methods and materials for containment and cleaning up</b></p> <p><b>For containment:</b> Dampen down any dust spillages as soon as possible. Do not allow dust to be dispersed by wind.</p> <p><b>For cleaning up:</b> Remove large pieces of board by hand and use a vacuum cleaner to remove dust. If a brush is used ensure that dust is dampened beforehand.</p> <p>Do not allow dust to be dispersed by use of compressed air.</p> <p>Dust and pieces of board should be packaged into impermeable plastic sacks which should be sealed. Such waste should then be disposed of according to local regulations.</p>



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**Reference to other sections**

Section 7 for Handling and Storage and Section 8 for protective equipment.

**Section 7: Handling and storage**

<b>7.1</b>	<p><b>Precautions for safe handling</b></p> <p><b>Protective measures:</b> No special protective measures are normally required. Advice on safe handling:</p> <p><b>Fire prevention:</b> Products are not flammable.</p> <p><b>Aerosol and dust generation prevention:</b> Small amounts of dust may be generated if boards are allowed to abrade against each other.</p> <p><b>Environmental precautions:</b> No special precautions are required.</p> <p><b>Advice on general occupational hygiene:</b> Wear protective clothing.</p>
<b>7.2</b>	<p><b>Conditions for safe storage, including any incompatibilities</b></p> <p><b>Technical measures and storage conditions:</b> Both un-machined and machined boards should be packed to prevent movement, abrasion during transit and 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> Card cartons.</p> <p><b>Requirements for storage rooms and vessels:</b> Dry location.</p> <p><b>Hints on storage assembly:</b></p>



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	<p>Millboards are not considered to be dense materials but care should be taken not to exceed safe working loads for equipment and storage shelves or racks.</p> <p><b>Storage class:</b> N/A</p> <p><b>Materials to avoid:</b> No special requirements.</p> <p><b>Further information on storage conditions:</b> N/A</p>
7.3	<p><b>Specific end uses:</b></p> <p><b>Recommendations:</b> N/A</p> <p><b>Specific end uses:</b> See references to dust hazards during cutting and machining, Section 4.</p>

## Section 8: Exposure controls/personal protection

8.1	<p><b>Control Parameters</b></p> <p>Reference should be made to local and country-specific occupational exposure limits for dust, quartz and low bio-persistence mineral fibres.</p> <p>UK monitoring methods can be found as follows:</p> <p>MDHS 14/4 – General methods of sampling and gravimetric analysis of thoracic and inhalable aerosols. MDHS 59 – Machine- made fibres airborne number concentration and classification by phase contrast light microscopy. MDHS 101 – Crystalline silica in respirable airborne dusts.</p> <p>NIOSH 0500 – Particulates not otherwise regulated, total NIOSH 0600 – Particulates not otherwise regulated, respirable. NIOSH 7400 – Asbestos and other fibres by PCM NIOSH 7500 - Silica, crystalline, by XRD.</p>
8.2	<p><b>Exposure Controls</b></p> <p>Fit and use appropriate local exhaust ventilation systems for cutting and machining</p>



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	operations.  Maintain a clean workplace using a vacuum cleaner.
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## Section 9: Physical and chemical properties

### 9.1 Information on Basic Physical and Chemical Properties

<b>Physical State</b>	Solid material
<b>Appearance</b>	Board
<b>Colour</b>	FF700 - yellow FF650/707 – buff FF800 – pink FF900/907 – buff FF1125 - buff
<b>Odour</b>	N/A
<b>Odour threshold</b>	N/A
<b>pH</b>	N/A
<b>Melting/Freezing Point</b>	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
<b>Vapour pressure</b>	N/A
<b>Vapour density</b>	N/A
<b>Relative density</b>	600 to 1100 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





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## Section 10: Stability and reactivity

<b>10.1</b>	<b>Reactivity</b> Stable and non-reactive
<b>10.2</b>	<b>Chemical Stability</b> Stable and inert.
<b>10.3</b>	<b>Possibility of Hazardous Reaction</b> There is the possibility of release of gaseous oxidation products from organic binders during initial heating up to around 400 °C. It is recommended that the work area is ventilated until the oxidation product gases have dispersed.
<b>10.4</b>	<b>Conditions to Avoid</b> Exposure to water.
<b>10.5</b>	<b>Incompatible Materials</b> None.
<b>10.6</b>	<b>Hazardous Decomposition Products</b> None.

## Section 11: Toxicological Information

### 11.1 Information on Toxicological Effects

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

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

Repeated or prolonged inhalation of crystalline quartz may cause delayed lung damage.

#### 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.
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## Section 12: Ecological Information

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

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## Section 13: Disposal Considerations

13.1	<b>Waste Treatment Methods</b>  <b>Product/Packaging Disposal:</b> Packaging can be cleaned and recycled.  <b>Waste Treatment Options:</b> Waste from these products may be disposed of in landfill according to local regulations.
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**Section 14: Transport Information**

<b>14.1</b>	<b>UN Number</b> N/A
<b>14.2</b>	<b>UN Proper Shipping Name</b> N/A
<b>14.3</b>	<b>Transport Hazard Class(es)</b> N/A <b>Hazard Labels</b>
<b>14.4</b>	<b>Packing Group</b> N/A
<b>14.5</b>	<b>Environmental Hazards</b> N/A
<b>14.6</b>	<b>Special Precautions for User</b> N/A
<b>14.7</b>	<b>Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code</b> N/A

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## Section 15: Regulatory Information

15.1	<p><b>Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture</b></p> <p><b>EU Regulations</b> Regulation (EC) No 1907/2006, 18<sup>th</sup> December 2006, on Regulation, Evaluation, Authorisation and Restriction of Chemicals (REACH)</p> <p>Regulation (EC) No 1272/2008, 20<sup>th</sup> January 2009, on Classification, Labelling and Packaging of Substances and Mixtures (OJL 353)</p> <p>The 7<sup>th</sup> Adaptation to Technical Progress (ATP) to Regulation (EC) No 1272/2008 was published on 15<sup>th</sup> July 2015.</p> <p><b>Worker Protection</b> In accordance with the following directives and their amendments:</p> <p>Council Directive 89/391/EEC, 12<sup>th</sup> June 1989 on the Introduction of measures to encourage improvements in the safety and health of workers at work</p> <p>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.</p>
15.2	<p><b>Chemical Safety Assessment</b> Available on request.</p>



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## Section 16: Other Information

<b>16.1</b>	<b>Indication of Changes</b> All sections updated 31 <sup>st</sup> May 2016 Product FF 1125 added to Product List Section 1.3 amended to include corrected post code
<b>16.2</b>	<b>Abbreviations and Acronyms</b> None used.
<b>16.3</b>	<b>Key Literature References and Sources of Data</b> See main sections.
<b>16.4</b>	<b>Classification for Mixtures and Used Evaluation Method According to Regulation (EC) 1207/2008 [CLP]</b> See Section 2.
<b>16.5</b>	<b>Relevant R-, H- and EUH Phrases (Number and Text)</b> N/A
<b>16.6</b>	<b>Training Advice</b> See Tenmat Millboard Products Technical Brochure for information on use.
<b>16.7</b>	<b>Further Information</b> For further information visit <a href="http://www.tenmat.com">www.tenmat.com</a>