



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

Trade Name: Firefly 102

Version: 1

Revision Date: 13/06/2022

| Section 1: Identification of the substance/mixture and of the company/undertaking | |
|--|---|
| 1.1 | Product Identifier Firefly 102 |
| 1.2 | Relevant identified uses of the substance or mixture and uses advised against Expands when heated to act as a fire stop. Main application is in fire protection. |
| 1.3 | Details of the supplier of the safety data sheet TENMAT Limited Ashburton Road West Trafford Park Manchester M17 1TD United Kingdom Tel: +44 (0)161 872 2181 Fax: +44 (0)161 872 7596 Email: sales@tenmat.com |
| 1.4 | Emergency telephone number +44 (0)161 872 2181 +44 (0)161 955 2446 (9 am to 5 pm) |
| 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] Supplemental hazard information (EU): These products are not hazardous in the form in which they are shipped by the manufacturer. |



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| 2.3 | Other hazards There may be low levels of dust as a result of downstream activities such as cutting and machining. |
| Section 3: Composition/information on ingredients | |
| 3.1 | Composition of product 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 | Description of First Aid Measures General Information The main hazards arise from any downstream activities such as cutting and machining. Following Inhalation Avoid breathing dust. Use suitable local exhaust ventilation. If breathing difficulties are experienced whilst machining, remove to fresh air or a ventilated area and seek medical advice. Following Skin Contact If possible, vacuum excessive dust from clothes as well as skin and hair. Wash and clean contaminated skin with soap and water. Following Eye Contact Irrigate abundantly with water, seek medical attention. Following Ingestion If small quantities are ingested seek medical advice. Self-Protection for First Aider Avoid breathing dust. Wear suitable personal protective equipment. |
| 4.2 | Most Important Symptoms and Effects, both Acute and Delayed Symptoms and effects: Dust may cause mechanical irritation such as eye irritation, coughing and sneezing. Repeated exposure to dust may cause chronic lung disease. |



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| 4.3 | Indication of any Immediate Medical Attention and Special Treatment Needed |
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| | Notes for doctor |
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| | None required. |
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| | Special Treatment |
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| | None required. |
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| Section 5: Fire-fighting measures | |
| 5.1 | <p>Extinguishing media:</p> <p>Suitable extinguishing media: Water jet spray, foam, sand, carbon dioxide, extinguishing powder.</p> <p>Unsuitable extinguishing media: None</p> |
| 5.2 | <p>Special hazards arising from the substance or mixture</p> <p>Hazardous combustion products</p> <p>None.</p> |
| 5.3 | <p>Advice for fire-fighters</p> <p>Wear self-contained breathing apparatus to an appropriate standard with positive pressure. Wear skin protection sufficient to protect from thermal decomposition products.</p> |
| Section 6: Accidental release measures | |
| 6.1 | <p>Personal precautions, protective equipment and emergency procedures</p> <p>For non-emergency personnel: Avoid inhaling dust. Use appropriate protective clothing.</p> <p>Protective equipment: Where dust is generated wear approved half or full face air purifying respirator.</p> <p>Emergency procedures: Avoid inhaling dust.</p> <p>For emergency responders: Avoid inhaling dust.</p> <p>Personal protective equipment: Protective clothing and equipment should be provided for operators carrying out cutting and machining operations.</p> |
| 6.2 | <p>Environmental precautions</p> <p>Prevent spread of dust.</p> |



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| 6.3 | Methods and materials for containment and cleaning up For containment: Use suitable local exhaust ventilation to remove dust during cutting and machining operations. For cleaning up: Remove dust using an appropriate vacuum cleaner. |
| 6.4 | Reference to other sections See Section 7 for Handling and Storage and Section 8 for Protective Equipment. |
| Section 7: Handling and storage | |
| 7.1 | Precautions for safe handling Protective measures: No special protective measures are normally required. Fire prevention: Not flammable. Aerosol and dust generation prevention: Not applicable. Environmental precautions: No special precautions are required. Advice on general occupational hygiene: Wear protective clothing. |

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7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:
 Maintain dry conditions and avoid direct sunlight and extreme temperatures.

Packaging materials:
 Cardboard

Requirements for storage rooms and vessels:
 Dry location.

Hints on storage assembly:
 Take care not to exceed safe working loads and heights for storage shelves and racks.

Storage class:
 N/A

Materials to avoid:
 No special requirements.

Further information on storage conditions:
 N/A

7.3 Specific end uses:

Recommendations:
 N/A

Specific end uses:
 See references to dust hazards during cutting and machining, Section 4.

Section 8: Exposure controls/personal protection

8.1 Control Parameters
 Occupational Exposure limits

Nuisance dust:

OEL (UK): < 5 mg/m³ 8 hour TWA tot. inhalable dust < 2 mg/m³ 8 hour respirable dust

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| 8.2 | <p>Exposure Controls</p> <p>Fit and use appropriate local exhaust ventilation systems for cutting and machining operations.</p> <p>Maintain a clean workspace and use a vacuum cleaner.</p> |
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Section 9: Physical and chemical properties

9.1 Table of properties

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|--|------------------------|
| Physical State | Solid material |
| Appearance | Rigid Sheet |
| Colour | Grey |
| Odour | N/A |
| Odour threshold | N/A |
| pH | N/A |
| Melting/Freezing Point | N/A |
| Boiling point | N/A |
| Flash point | N/A |
| Evaporation rate | N/A |
| Flammability (solid, gas) | N/A |
| Upper/lower flammability or explosive limits | N/A |
| Upper explosive limit | N/A |
| Lower explosive limit | N/A |
| Vapour pressure | N/A |
| Vapour density | N/A |
| Relative density | 900 kg.m ⁻³ |
| Solubility | Not soluble in water |
| Partition coefficient n-octanol/water | N/A |
| Auto-ignition temperature | N/A |
| Decomposition temperature | N/A |
| Dynamic viscosity | N/A |
| Kinematic viscosity | N/A |
| Explosive properties | N/A |
| Oxidising properties | N/A |

Section 10: Stability and reactivity

10.1 Reactivity

Stable and non-reactive.

10.2 Chemical Stability

Stable and inert.

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| 10.3 | Possibility of Hazardous Reaction No hazardous reactions known. |
| 10.4 | Conditions to Avoid Incompatible with strong acids and alkalis. Consult Tenmat. |
| 10.5 | Incompatible Materials No hazardous reactions known. |
| 10.6 | Hazardous Decomposition Products None. |
| Section 11: Toxicological Information | |
| 11.1 | Information on Toxicological Effects This material does not show any significant toxicological effects or critical hazards. |
| Section 12: Ecological Information | |
| 12.1 | Toxicity These products are insoluble in water and remain stable over time. |
| 12.2 | Persistence and Degradability Not established. |
| 12.3 | Bio accumulative Potential Not established. |
| 12.4 | Mobility in Soil No information available. |
| 12.5 | Results of PBT and vPvB Assessment These products do not contain substances that are considered as either PBT or vPvB |
| 12.6 | Other Adverse Effects No other additional information available. |
| Section 13: Waste Treatment Methods | |
| 13.1 | Product/Packaging Disposal Packaging can be cleaned and recycled Waste Treatment Options See local regulations. |
| Section 14: Transport Information | |
| 14.1 | UN Number N/A |

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| 14.2 | UN Proper Shipping Name N/A |
| 14.3 | Transport Hazard Class(es) N/A Hazard Labels N/A |
| 14.4 | Packing Group N/A |
| 14.5 | Environmental Hazards N/A |
| 14.6 | Special Precautions for User N/A |
| 14.7 | Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code N/A |
| Section 15: Regulatory Information | |
| 15.1 | Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture No specific regulations. |
| 15.2 | Chemical Safety Assessment Not carried out. |
| Section 16: Other Information | |
| 16.1 | Indication of Changes All sections updated June 13 th 2022 |
| 16.2 | Abbreviations and Acronyms None used. |
| 16.3 | Key Literature References and Sources of Data |
| 16.4 | Classification for Mixtures and Used Evaluation Method According to Regulation (EC) 1207/2008 [CLP] See Section 2. |
| 16.5 | Relevant R-, H- and EUH Phrases (Number and Text) N/A |
| 16.6 | Training Advice See Tenmat Firefly Products Technical Brochure for information on use. |
| 16.7 | Further Information For further information visit www.tenmat.com |