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**1.) IDENTIFICATION****Product identifiers**

Freeman M-1900 Foam Board

**Relevant identified uses of the substance or mixture and uses advised against**

Engineering & Prototyping Applications. For Industrial and Professional Use Only.

**Details of the supplier of the safety data sheet**

Freeman Manufacturing & Supply Company  
1101 Moore Road, Avon, OH 44011-4043 U.S.A.  
Telephone: +1 (440) 934-1902, +1 800-321-8511  
E-mail: [contactus@freemansupply.com](mailto:contactus@freemansupply.com)

**Please note that this document  
is not a legal requirement.**

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**2.) HAZARDS IDENTIFICATION****2.1. Classification of the substance or mixture**

This substance is not classified as hazardous in accordance with 29 CFR 1910.1200.

This substance is not classified as hazardous in accordance with regulation (EC) no. 1272/2008.

Most important adverse effects under CLP: Sawing, sanding or machining tooling board products may produce dust, which can cause an explosion hazard. Tooling board dust may cause irritation to the eye, skin and respiratory tract.

**2.2. Label elements**

There is no requirement for the product to be specially labelled

**2.3. Other hazards**

**Manual handling:** Higher density tooling boards can be heavy. If possible, when moving boards, consider the use of a lifting aid, such as forklift truck, electric or hand-powered hoist or a conveyor.

**Inhalation:** Tooling board dust may cause nasal dryness, irritation and obstruction. Coughing, wheezing and sneezing have also been reported

**Eye Contact:** Fine dust may cause temporary irritation. Larger particles can cause mechanical irritation.

**Skin Contact:** No adverse effects.

**Ingestion:** Not likely to occur.

**Chronic:** No reported effects.

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**3.) COMPOSITION / INFORMATION ON INGREDIENTS**

This foam board is a cast polyurethane based on polyether polyol and aromatic isocyanates.  
It is chemically inert with no unreacted compounds.

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**4.) FIRST AID MEASURES****4.1. Description of first aid measures**

**Skin contact:** Wash affected areas with soap and water until dust is entirely removed from skin.

Get medical attention if rash or irritation persists or dermatitis occurs.

**Eye contact:** Fine dust may cause mechanical irritation. Treat dust in eye as foreign object.

Flush eyes with large amounts of water. Remove to fresh air. If irritation persists, get medical attention.

**Ingestion:** Not Applicable

**Inhalation:** Fine dust particles may cause unpleasant obstruction in the nasal passages, resulting in dryness of nose, dry cough, sneezing and headaches. Remove to fresh air.

**4.2. Most important symptoms and effects, both acute and delayed potential acute health effects**

**Skin contact (Dust):** There may be mild irritation at the site of contact.

**Eye contact (Dust):** There may be irritation and redness

**Ingestion:** Not Applicable

**Inhalation (Dust):** There may be dryness of nose, dry cough, sneezing and headaches

**4.3. Indication of any immediate medical attention and special treatment needed**

**Notes for the doctor:** Treat symptomatically

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**5.) FIRE-FIGHTING MEASURES**

**5.1. Extinguishing media**

Suitable extinguishing media: Use an extinguishing agent suitable for the fire surroundings.

**5.2. Special hazards arising from the substance or mixture**

Fire fueled by tooling board dust or shavings is classified as a Class-A fire. Principal decomposition products include carbon dioxide and carbon monoxide. Sawing, sanding or machining can produce shavings and dust as a byproduct that may present an explosion hazard.

**5.3. Advice for firefighters**

Firefighting procedures for extinguishing a Class A fire should be followed. Use recommended Class A firefighting equipment when fighting an incipient fire. This includes an air-fed respirator. When extinguishing a fire in a pile of tooling board dust or shavings, care needs to be taken. A direct stream of water into the pile from a hose could cause the burning material to become airborne, creating a risk in spreading the fire to other areas. Only use water to quench the burning material below its ignition temperature. The addition of Class A extinguishing foams (sometimes referred to as wet water) may enhance water's ability to extinguish Class A fires, particularly those that are deep seated in bulk materials (such as piles of shavings, dust etc.). This is because the Class A foam agent reduces the water's surface tension, allowing it to penetrate more easily into piles of material. Class A fires are difficult to extinguish using oxygen-exclusion methods like CO<sub>2</sub> flooding or coating with foam because these methods do not provide the cooling effect needed for total extinguishment.

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**6.) ACCIDENTAL RELEASE MEASURES**

**6.1. Personal precautions, protective equipment and emergency procedures**

See Section 8

**6.2. Environmental precautions**

No special measures are necessary.

**6.3. Methods and materials for containment and cleaning up**

Take up mechanically, a conventional vacuum cleaner may be used. Place spillage in appropriate containers for disposal. Avoid dust formation

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**7.) HANDLING AND STORAGE**

**7.1. Precautions for safe handling**

Wear gloves when handling polyurethane boards. Avoid direct contact with an open flame. Avoid repeated or prolonged breathing of air-borne dust. Wet down accumulated dust prior to vacuuming or shoveling in order to prevent explosion hazards. Avoid dusty conditions and provide good ventilation/extraction. Shaving and dust clean up, and disposal activities, should be accomplished in a manner to minimize creation of airborne dust. Do not inhale dusts during clean up. Take care when moving boards and blocks. Use mechanical handling devices to move heavy boards

**7.2. Conditions for safe storage, including any incompatibilities**

This product should not be stored where exposure to water could occur or near a source of ignition. Avoid storing in areas of high relative humidity and high temperature. It is recommended to store product in an area of relative humidity and temperature that approximates end use. Do not store near high heat sources.

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**8.) EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1. Control parameters**

Contains no substances with occupational exposure limit values

**8.2. Appropriate engineering controls:** Provide adequate general and local exhaust ventilation to keep airborne contaminant concentration levels to meet OSHA requirements for general dust exposure. Ensure a maximum average concentration of 10mg/m<sup>3</sup> of total dust in the atmosphere

**Respiratory protection:** Wear an approved respirator if allowable exposure limits may be exceeded.

**Hand protection:** Protective gloves

**Eye protection:** Recommended goggles or safety glasses as conditions indicate when sawing, sanding or machining tooling board products.

**Skin protection:** Wear side-shield safety glasses or protective goggles during all aspects of fabricating this product. Other protective equipment such as gloves and outer garments may be needed depending on dust conditions.

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**9.) PHYSICAL AND CHEMICAL PROPERTIES**

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|------------------------|-----------------------------|
| <b>Physical state:</b> | solid, board/block          |
| <b>Color:</b>          | cream                       |
| <b>Odor:</b>           | odorless                    |
| <b>pH:</b>             | not available               |
| <b>Flash point:</b>    | >752°F (>400°C)             |
| <b>Density:</b>        | 275 - 325 kg/m <sup>3</sup> |
| <b>Solubility:</b>     | not soluble in water        |

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**10.) STABILITY AND REACTIVITY**

|                                                  |                                                                                                                                                                  |
|--------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>10.1. Reactivity:</b>                         | Fine dust generated from sawing, sanding or machining the product is extremely combustible. Keep in cool dry place away from ignition sources.                   |
| <b>10.2. Chemical stability:</b>                 | The product is stable under normal conditions.                                                                                                                   |
| <b>10.3. Possibility of hazardous reactions:</b> | Under normal conditions of storage and use, hazardous reactions will not occur.                                                                                  |
| <b>10.4. Condition to avoid:</b>                 | Avoid product contact with an open flame and any temperature sources that could induce thermal decomposition.                                                    |
| <b>10.5. Incompatible materials:</b>             | Avoid product contact with oxidizing agents, drying oils and strong acids.                                                                                       |
| <b>10.6. Hazardous decomposition products:</b>   | Thermal and/or thermal-oxidative decomposition can produce irritating and toxic fumes and gases, including carbon monoxide, carbon dioxide and hydrogen cyanide. |

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**11.) TOXICOLOGICAL INFORMATION****11.1. Information on toxicological effects**

|                              |                                                                                                    |
|------------------------------|----------------------------------------------------------------------------------------------------|
| <b>Acute toxicity:</b>       | no data available                                                                                  |
| <b>Irritation/corrosion:</b> | dust particles are mechanically irritating eyes, may cause nasal dryness, irritation, and coughing |
| <b>Sensitization:</b>        | classification criteria are not met                                                                |
| <b>Carcinogenicity:</b>      | classification criteria are not met                                                                |
| <b>Chronic effects:</b>      | none reported                                                                                      |
| <b>Aspiration hazard:</b>    | classification criteria are not met                                                                |

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## 12.) ECOLOGICAL INFORMATION

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|-------------------------------------------|---------------------------------------------------------|
| 12.1. Toxicity:                           | not available                                           |
| 12.2. Persistence and degradability:      | not degradable                                          |
| 12.3. Bio accumulative potential:         | not available                                           |
| 12.4. Mobility in soil:                   | not available                                           |
| 12.5. Results of PBT and vPvB assessment: | product does not contain any substances as PBT or vPvB. |

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## 13.) DISPOSAL CONSIDERATIONS

This board product is not recyclable. It is the user's responsibility to determine whether your product meets any applicable criteria for waste disposal. Disposal must follow applicable national and local regulations.

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## 14.) TRANSPORT INFORMATION

This product is classified as 'Non-Dangerous' for DOT, ADR, IATA and IMDG Regulations.

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## 15.) REGULATORY INFORMATION

- 15.1. Safety, health and environmental regulations specific for the substance or mixture  
No applicable specific regulations
- 15.2. Chemical safety assessment  
For this product a chemical safety assessment is not required. Tooling board products are non-hazardous under criteria of European regulations. However, shavings and dust generated by sawing, sanding or machining this product may be hazardous.

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## 16.) OTHER INFORMATION:

### Disclaimer

The following supersedes Buyer's documents. SELLER MAKES NO REPRESENTATION OR WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. No statements herein are to be construed as inducements to infringe any relevant patent. Under no circumstances shall Seller be liable for incidental, consequential or indirect damages for alleged negligence, breach of warranty, strict of liability arising in connection with the product(s). Buyer's sole remedy and Seller's sole liability for any claims shall be Buyer's purchase price. Data and results are based on controlled lab work and must be confirmed by Buyer by testing for its intended conditions of use. The product(s) has not been tested for, and is therefore not recommended for, uses for which prolonged contact with mucous membranes, abraded skin, or blood is intended; or for uses for which implantation within the human body is intended.

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