

## MATERIAL SAFETY DATA SHEET

MSDS No.	035	Issue No.	01
Dated:	May 1998	Supercedes:	NPD 98(Without Ceramic ) Draft
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### SECTION 1 - IDENTIFICATION OF THE PREPARATION(S)

Product names / codes: Intumescent mat

### SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS

#### Chemical Constitution:

Mineral Wool Fibre	20 - 75	%	by weight
Polyester Fibre	2.0 - 10	%	by weight
Exfoliating Graphite	20 - 60	%	by weight
Organic binder	5.0 - 20	%	by weight

### SECTION 3 - HAZARDS IDENTIFICATION

Cutting through the material and surface scuffing may release small amounts of airborne fibre and carbon dust which are mechanically irritant to skin, eyes and upper respiratory system.

Based on animal studies, excessive exposure to man made mineral fibre dust may cause lung damage (fibrosis) and tumours.

As with any dust, pre-existing upper respiratory and lung diseases may be aggravated.

### SECTION 4 - FIRST AID MEASURES

**Skin:** Rinse affected areas with water and wash gently with soap. Do not use detergent.

**Eyes:** Flush eyes with large quantities of water. Have eye bath readily available in areas where eye contact may occur. Seek medical attention if irritation continues.

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**Ingestion:** Drink plenty of water. Seek medical advice.

**Inhalation:** Remove to fresh air, drink water and clear throat and blow nose to evacuate fibre/dust. Seek medical attention.

### SECTION 5 - FIRE FIGHTING MEASURES

**Suitable Extinguishing Media:**

Use extinguishing agent suitable for type of surrounding combustible materials.  
Do not inhale products of Combustion.

### SECTION 6 - ACCIDENTAL RELEASE MEASURES

Store product in original wrapping until required for use.  
**Do not allow dust to be wind blown. Do not use compressed air to blow dust or fibres.**  
Unwanted product should be collected and stored in sealed bags. Dust/fibre should be removed using a suitable vacuum cleaner with HEPA exhaust air filtration and disposable collection bags; used bags to be sealed before disposal. If sweeping is required the area should be damped down with water before brushing.

### SECTION 7 - HANDLING AND STORAGE

**Handling:** Keep dust generation to a minimum.

**Storage:** Store dry and cool. Keep in original wrapping until required for use.

### SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

**Applicable Occupational Exposure Limits :**

Man made mineral fibre: \*MEL 2.0 fibres/ml & 5 mg/m<sup>3</sup> ( 8 hr TWA)

Fine Carbon Dust: \*OES 3.5 mg/m<sup>3</sup> ( 8 hr TWA) and 7 mg/m<sup>3</sup> (STEL)

\* ( UK Health & Safety Executive - OEL EH40/98 )

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**Respiratory Protection:** Wear disposable dust respirator (eg 3M 8810 or equivalent).

**Hand Protection:** Use of gloves is recommended.

**Eye Protection:** Wear goggles or safety glasses with side shields. Do not wear contact lenses.

**Skin Protection:** Wear overalls that are loose fitting at the neck and wrists.

### SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Flexible Grey fibrous mat with Black speckle.

**Density:** 650 - 950 kg/m<sup>3</sup>

**Expansion:** Rapid volumetric expansion occurs when product is heated above 200°C.

**Flammability:** Material will sustain combustion for a short period until organic binder is burnt out or resulting expansion self-extinguishes.

### SECTION 10 - STABILITY AND REACTIVITY

**Stability / Conditions to avoid:** Stable.

**Materials to avoid:** Strong oxidising agents, strong alkalis and hydrofluoric acid.

**Hazardous decomposition products:** Combustion products are H<sub>2</sub>O, CO, CO<sub>2</sub> and hydrocarbons.

**Hazardous Polymerisation:** Will not occur.

### SECTION 11 - TOXICOLOGICAL INFORMATION

The International Agency for Research on Cancer ( IARC ) has classified Mineral Wool Fibre as possibly carcinogenic ( Group 2B ).

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**SECTION 12 - ECOLOGICAL INFORMATION**

This product will remain stable over time with the inorganic components remaining inert.

**SECTION 13 - DISPOSAL CONSIDERATIONS**

Waste is not classified as a hazardous waste and may be disposed of at a normal licensed industrial waste site. Local regulations should be considered. Waste should be bagged or suitably contained for disposal to prevent any dusts being wind blown during disposal.