



## SAFETY DATA SHEET – Zeolite Filter Media

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**PRODUCT NAME:** Natural Zeolite Filter Media  
Sold as Product grade; FM8/16, FM8/30, FM16/30, FM16/50, FM3/1  
UN Number: None Allocated  
HazChem Code: None Allocated  
Dangerous Goods Class & Sub-Risk: None Allocated  
Poisons Schedule: None Allocated  
Australian Harmonized Export Commodity Classification (AHECC): 2530 9093, "Other Types of Rock Media"

### IDENTIFICATION

**Product Form:** Fine pink gravel  
**Origin:** Hard Rock Natural Ash Fall Tuff Deposit.  
**Minerals Present:** Main - Mordenite, Clinoptilolite  
Minor - Quartz, Feldspar, Montmorillonite.  
**Composition:** Sodium/Calcium Aluminosilicates.  
**Product Size:** Nominally greater than 0.5mm.  
**Particle Shape:** Cubic to Blocky.  
**Bulk Density:** Circa 1.1 to 1.2 kg/m<sup>3</sup>

### CHEMICAL CHARACTERISTICS

**Chemical Formula:** Typically (Na)<sub>6</sub>(Al<sub>6</sub>Si<sub>30</sub>O<sub>72</sub>).20H<sub>2</sub>O to Na<sub>3</sub>Ca<sub>2</sub>(Al<sub>8</sub>Si<sub>40</sub>O<sub>96</sub>).28H<sub>2</sub>O.  
**Chemical Stability:** Excellent.  
**Melting Point:** Circa 1000°C (may tend to froth and bubble at temperatures in excess of 200°C).  
**Solubility in Water:** Virtually Insoluble.  
**Vapour Pressure:** Not Applicable.  
**Vapour Density:** Not Applicable.  
**Volatiles:** Nil.  
**Flash Point:** Not Applicable.  
**Flammability:** Non-flammable.  
**Explosive Limits:** Non-explosive.  
**Auto ignition Temp:** Not Applicable.  
**Form:** Small granular solid.

### HEALTH HAZARD INFORMATION

#### Human Contact

**Eyes:** Unlikely unless very prolonged contact in high dust area may cause some irritation.  
**Skin:** Prolonged contact may cause some irritation due to drying action.  
**Inhalation:** No known effects, however, product is silica and lung injury (silicosis) could be possible from excessive inhalation over an extended period.  
**Swallowed:** No known adverse effects. Product is used in filtration of water.

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April 2020

**HEALTH HAZARD INFORMATION (Continued)****Precautions**

- Eyes:** Wear protective goggles.
- Skin:** Wash hands with soap and water. Use suitable skin protection cream.
- Inhalation:** Is unlikely.
- Swallowed:** Is unlikely.

**First Aid**

- Eyes:** No treatment necessary.
- Skin:** No treatment necessary.
- Inhalation:** Is unlikely.
- Swallowed:** Is unlikely.

**Advice to Doctor**

Base Material is non-toxic and chemically inert.

Electron photomicrographs have shown that particle shape is generally blocky and sub-rounded rather than sharp.

**Precautions for Use**

**Exposure Limits:** Crystalline aluminosilicate that could be classified as a nuisance dust with an exposure standard of 7mg/m<sup>3</sup>.

**Engineering Controls:** Nil required.

**Personal Protection:** Nil required.

**Flammability:** Not applicable.

**Environment:** Not applicable.

**SAFE HANDLING INFORMATION****Storage and Transport**

|                 |                                     |
|-----------------|-------------------------------------|
| ROAD TRANSPORT: | Not classified as a Dangerous Goods |
| SEA TRANSPORT:  | Not classified.                     |
| STORAGE:        | Protect from moisture.              |

**Packaging and Labelling:** No special requirements.

**Spills and Disposal:** Not applicable.

**Reactivity:** Will react with HF.

**Fire/Explosion Hazard:** Non-flammable, non-explosive, reduces heat and is fire retardant.

*No warranty is implied or made. This Product Safety Data Sheet is not a substitute for expert advice of development of engineering and safe handling practise.*

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