



SAFETY DATA SHEET – Zeolite Large Granules

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PRODUCT NAME: Natural Zeolite Large Granules
Sold as Product grade; 4/2, 2.2Plus, 7/3, 8/15
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: Large pink granules.
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 2mm.
Particle Shape: Cubic to Blocky.
Bulk Density: Circa 1.1 to 1.8 kg/m³

CHEMICAL CHARACTERISTICS

Chemical Formula: Typically (Na)₆(Al₆Si₃₀O₇₂).20H₂O to Na₃Ca₂(Al₈Si₄₀O₉₆).28H₂O.
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: Large 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 industrial uses and air filtration and treatment.

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HEALTH HAZARD INFORMATION (Continued)**Precautions****Eyes:** Nil.**Skin:** Nil.**Inhalation:** Nil.**Swallowed:** Nil.**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/m³.**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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