



SAFETY DATA SHEET – Zeolite Sand

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PRODUCT NAME: Natural Zeolite Sand
Sold as Product Grade; ZSUN, ZSMC, 2.2 minus, 1mm Minus
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 sand
Origin: Hard Rock Natural Ash Fall Tuff Deposit.
Minerals Present: Main - Mordenite, Clinoptilolite
Minor - Quartz, Feldspar, Montmorillonite.
Composition: Sodium/Calcium Aluminosilicates.
Product Size: Nominally minus 2mm.
Particle Shape: Cubic to Blocky.
Bulk Density: Circa 1.2 to 1.4 kg/m³.

CHEMICAL CHARACTERISTICS

Chemical Formula: Typically $(\text{Na},)_6(\text{Al}_6\text{Si}_{30}\text{O}_{72}) \cdot 20\text{H}_2\text{O}$ to $\text{Na}_3\text{Ca}_2(\text{Al}_8\text{Si}_{40}\text{O}_{96}) \cdot 28\text{H}_2\text{O}$.
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: Powdered sand.

HEALTH HAZARD INFORMATION

Human Contact

Eyes: Potential eye hazard.
Skin: Prolonged contact may cause some irritation due to drying action.
Inhalation: Fine sand may have fine dust in it and could be inhaled.
Swallowed: No Known adverse affects.

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Precautions

- Eyes:** Wear protective goggles.
- Skin:** Wash hands with soap and water. Use suitable skin protection cream.
- Inhalation:** Recommend wearing suitable respirator. Stand on windward side of any temporary spills.
- Swallowed:** Wash hands well with detergent and water before consumption of food.

First Aid

- Eyes:** Flush with clean water for 5 to 10 minutes. If irritation persists, seek immediate medical attention.
- Skin:** Wash affected area with soap and water and apply suitable skin protection cream. If irritation or rash persists, seek medical advice.
- Inhalation:** Remove patient from affected area. Seek medical advice if symptoms persist.
- Swallowed:** If adverse effects occur seek medical advice.

Advice to Doctor

Base Material is non-toxic and chemically inert. It is however highly absorbent and could have a dehydrating effect if large amounts are ingested rapidly.

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: Use suitable means of dust collection/suppression so that airborne dust limits do not exceed the exposure limits. If respirable dust levels exceed industrial limit, use respirators suitable for inert crystalline dust.

Personal Protection: Must wear face protection. Persons with a history of respiratory illness or reduced pulmonary function should not work in areas with high levels of dust.

Flammability: No applicable.

Environment: Other than respirable dust limitations no environmental hazards are known for this zeolite.

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: Warning statement on our packaging or on packaging of clients' product.

Spills and Disposal: Avoid excessive exposure to dust. If dust grade material is spilt use respirator during dry clean.

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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