

## PERLITE MATERIAL SAFETY DATA SHEET

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### COMPANY DETAILS

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**Company:** Blue Pacific Minerals  
**Address:** Huttlok Drive, Tokoroa  
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**Emergency Phone No:** +64 0274 573 0070

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### IDENTIFICATION

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**Product Name:** PERLITE ORE (PT-300, PT-JHX, PT-06, PT-07, PT-07+, PT-207, PT-410)

**Chemical Name:** N/A

**Other Names:** N/A

**Manufacturer:** Blue Pacific Minerals  
State Highway #1  
Tokoroa  
NEW ZEALAND

**Manufacturer's Product Code:** Various Grades

**Packing Group:** None

**U.N. Number:** None

**Hazchem Code:** Not applicable

**Dangerous Goods Class:** None

**Toxic Substances Schedule:** None

### Physical Description/Properties

**Appearance:** Light Brown

**Boiling Point:** Not applicable

**Melting Point:** 1260-1343 °C

**Flash Point:** Not applicable

**Flammability Limits:** Not applicable

**Vapour Pressure:** Not applicable

**Specific Gravity (water = 1):** 2.3 gm/cm<sup>3</sup>

**Explosion Data:** Not applicable

**Form:** Solid

**Description:** Perlite is essentially an amorphous, hydrated glassy volcanic rock of rhyolitic composition, consisting primarily of fused sodium potassium aluminium silicate.

| Ingredients                     | Cas No.     | Proportion     |
|---------------------------------|-------------|----------------|
| Perlite                         | 93-763-70-3 |                |
| May contain, crystalline silica | 14464-46-1  | less than 0.1% |
| Cristobalite Quartz             | 14808-60-1  | less than 0.1% |



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## HEALTH HAZARD INFORMATION

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### Health Effects

#### Acute

**Swallowed:** No known adverse effects if ingested in small quantities. Not recommended for human consumption.

**Eye:** Exposure to dust may cause discomfort due to the particulate nature.

**Skin:** Not expected to be a skin irritant.

**Inhaled:** Inhalation of dust may result in respiratory irritation.

#### Chronic

No known chronic effects.

#### First Aid

**Swallowed:** Rinse mouth with water – give plenty of water to drink. If vomiting occurs give further water. Seek medical advice.

**Eyes:** Irrigate with copious quantities of water for 15 minutes. In all cases of eye contamination it is a sensible precaution to seek medical advice.

**Skin:** If skin irritation occurs, remove clothing and flush affected area with water. Seek medical attention if irritation persists.

**Inhaled:** Remove patient from affected area, to an area of clean air.

**Advice to Doctor:** Treat symptomatically.

**Toxicity Data:** Material is non toxic

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## PRECAUTIONS FOR USE

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### Exposure Limits

| Chemical Names | Exposure Limits in Air<br>ACGIH TLV |
|----------------|-------------------------------------|
|----------------|-------------------------------------|

|                    |                                       |
|--------------------|---------------------------------------|
| Perlite            | 10 mg/m <sup>3</sup>                  |
| Cristobalite       | 0.05mg/m <sup>3</sup> respirable dust |
| Crystalline quartz | 0.1 mg/m <sup>3</sup> respirable dust |

**Ventillation:** To meet TWA as a minimum

**Total weighted average:** 10mg/m<sup>3</sup> respirable dust

That is, the average air borne concentration of a particular substance when calculated over 8hrs per day for 5 days over an entire working life. This information and the TLV (threshold limit values) categorise perlite to be non-hazardous.

### Exposure Standards

Perlite is a naturally occurring silicous volcanic rock, of rhyolitic composition, consisting primarily of aluminium silicate. Perlite does not have a crystalline structure (<0.1% quartz) and is therefore considered to have only “nuisance dust” hazardous properties, according to criteria of Work Safe Australia.

No value assigned for this specific material by the Occupational Health & Safety.



## Engineering Controls

Ensure ventilation is adequate to maintain air concentrations below exposure Standard. Avoid generating and inhaling dust. Keep containers closed when not in use.

## Protective Equipment

No Specific safety equipment required. Preferable to avoid skin and eye contact and inhalation of dust. Wear overalls, safety glasses and impervious gloves. Avoid generating and inhaling dust. If dust exists, wear dust mask/respirator meeting the requirements of AS1715 and AS1716. Always wash hands before eating, drinking or using the toilet.

## Flammability

Perlite is a fully oxidized non-flammable mineral. It is non-combustible.

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## SAFE HANDLING INFORMATION

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### Storage precautions

Not defined as a Dangerous Good. Store in a dry place.

### Spills & Disposal

Use respirators suitable for nuisance dust and eye protection. Sweep up, but avoid generating dust. Dispose in bulk or containerised according to local regulations. Normally approved for disposal at approved land waste sites.

### Fire/Explosion Hazard

None.

Since product is non combustible, extinguishing media appropriate to the surrounding fire should be used.

### Reactivity Data

**Stability:** Stable                      **Incompatibility:** None (reacts with hydrofluoric acid; soluble in HF)

**Hazardous Polymerization:** Will not occur                      **Conditions to avoid:** None

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## OTHER INFORMATION:

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**Toxicology:** Inhaling crystalline silica containing dust can aggravate upper respiratory conditions such as asthma or emphysema. Long term exposure to mineral dust which contains crystalline silica can cause the lung disease silicosis. A recent review by the International Agency for Research into Cancer of public literature on the carcinogenic risk of silica and silicates has concluded that there is limited evidence for the carcinogenicity of crystalline silica to humans.

**Ecotoxicity Data:** N.A.

**Revision Date:** 24th September 2010

**Revision Number:** 5

**CONTACT POINT:** Emergency Contact Number +64 0274 573 007  
or - NATIONAL POISONS CENTRE  
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#### Disclaimer

The information contained in this Safety Data Sheet supersedes all previous such sheets and is based upon The Company's current knowledge at the date of preparation. It is given in good faith, without any warranty, expressed or implied, regarding its correctness or completeness. The conditions or methods of handling, storage, use or disposal of the product are beyond our knowledge. It is the sole responsibility of the user to take all precautions required in handling the product.

The information contained in this Material Safety Data Sheet does not constitute an assessment of work place risks.