

J.N.J. Resources

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MATERIAL SAFETY DATA SHEET

PRODUCT IDENTIFICATION

<u>Product Name:</u>	Earth Electrode Backfill Type B2
<u>Other Names:</u>	Bentonite Earth Sealant
<u>D.G Class:</u>	None allocated
<u>HAZCHEM Code:</u>	None allocated
<u>Packaging Group:</u>	None allocated
<u>Poison Schedule:</u>	None allocated
<u>UN Number:</u>	None allocated
<u>N.O.S. Proper Shipping Name</u>	None Allocated

CLASSIFIED AS HAZARDOUS ACCORDING TO THE CRITERIA OF WORKSAFE AUSTRALIA

<u>Recommended Use:</u>	Backfilling around earthing rods, or sacrificial galvanic anodes.
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Product Description/Properties:

Appearance:	Pale grey – brown granular powder. Puggy when wet.
Boiling Point:	Not relevant
Vapour Pressure:	Not relevant
Bulk Density:	1.2 – 1.6
Granular Density:	1.8 – 2.4
Flash Point:	Not relevant
Flammability Limits:	Not relevant
Autoignition Temperature:	Not relevant
pH (1:5 slurry):	7.5 – 9.5

INGREDIENTS:	CAS No.	Range (w/w)
Calcium Bentonite	1302 - 78 - 9	25 – 35 %
Gypsum	10101 - 41 - 4	60 – 70 %
Calcium Carbonate (Aragonite)	471-34-1	0 – 5 %
Quartz	14808 - 60 - 7	0 – 5 %
Coal Dust	N/A	0 – 1 %

All ingredients except Coal Dust are registered with the AICS.

EMERGENCY CONTACT:

Australian Poisons Information Centre (24 hr service):

Police or Fire Brigade:

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HEALTH HAZARD INFORMATION

Airbourne Exposure Limits:

Total Dust:	TLV TWA	2 mg/m³
Calcium Bentonite:	TLV TWA	N/A
Gypsum:	TLV TWA	10 mg/m³
Calcium Carbonate (Aragonite):	TLV TWA	10 mg/m³
Quartz (Crystalline Silica):	TLV TWA	0.2 mg/m³
Coal Dust:	TLV TWA	3 mg/m³

Health Effects:

Swallowed:	No adverse effects.
Eye:	Dust may cause mild irritation or redness.
Skin:	May cause drying resulting in dermatitis on prolonged contact.
Inhaled:	Acute irritation by dust in the short term. Long term chronic exposure to respirable Quartz particles (< 10 microns) in excess of the suggested limits may lead to the development of silicosis or other respiratory ailments.

First Aid:

Swallowed:	If swallowed, do not induce vomiting. Give quantities of water.
Eye:	If in eyes, hold eyes open and flood with water for at least 15 minutes. See a doctor.
Skin:	Wash with soap and water. If adverse effects develop, see a doctor.
Inhaled:	Remove victim from source of dust and have victim lie down and remain quiet. Give artificial or assisted respiration if breathing is difficult. Seek medical advice.

Advice to doctor: Treat symptomatically.

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PRECAUTIONS FOR USE:

- Ventilation:** Ensure adequate ventilation to keep dust below recommended exposure levels.
- Personal Protection:** **Avoid dustless methods, or use water sprays or slurries when handling.** Protective equipment is recommended: long sleeved shirts, trousers, safety boots and face shield. Avoid breathing dust. Where ventilation is not adequate, respiratory protection may be required. Where dust levels are up to $50 \times \text{TLV}$, any dust respirators are recommended, except single-use or $\frac{1}{4}$ masks. For dust levels greater than $50 \times \text{TLV}$, a high efficiency particulate filter respirator is to be used. Above $500 \times \text{TLV}$, SCBA with full facepiece must be used.
- Floors may become slippery if spilt, and especially when wet.
- Flammability:** Not Flammable, but may liberate hazardous Sulphur Oxide fumes in the event of fire.

SAFE HANDLING INFORMATION:

- Storage / Transport:** Store in a cool, dry, well ventilated place, away from foodstuffs. Avoid generating dust. Do not allow dust to accumulate on walls, floors, ledges, sills, or equipment.
- Accidental Release, Spills and Disposal:** **Avoid breathing dust. Use dustless or vacuum methods, or flush with water. Do not dry sweep.**
- Care should be taken around spills, as surfaces will become slippery, especially when wet. Shovel up and dispose of to waste disposal site approved of by Local Authority by-laws. Do not dispose of or flush to sewer or waterway.
- Fire / Explosion:** The product is stable and non-combustible.

ECOLOGICAL INFORMATION:

The material is non-toxic and generally considered chemically inert in the environment.

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