MATERIAL SAFETY DATA SHEET
B1 (AS2239) Anode Backfill
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Cathodic Anodes Australasia

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SECTION 1 MATERIAL IDENTIFICATION

Product Name B1 Anode Backfill (Australian Standard aS2239)
Use Cathodic protection

SECTION 2 HAZARDS IDENTIFICATION

This material is hazardous according to heath criteria of NOHSC Australia.

Hazard Category: Xn: Harmful

Risk Phrase(s): R20: Harmful by inhalation

Safety Phrase(s): S22: Do not breathe dust.
S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.
S38: In case of insufficient ventilation, wear suitable respiratory equipment.

Not classified as Dangerous Goods by the criteria of the Aust. Dangerous Goods Code (ADG Code) for transport by Road and Rail.

Poisons Schedule (Aust): Not applicable

SECTION 3 PHYSICAL DATA

CHEMICAL	Entity CAS NO.	PROPORTION
Calcium Bentonite	1302-78-9	40-50%
Gypsum	10101-41-4	45-55%
Quartz	14808-60-7	0-10%
Aragonite	471-34-1	0-5%
		100%

SECTION 4 FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Aust. 131 126, NZ 03 474 7000)

Inhalation: Remove victim from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.

Skin Contact: If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. If swelling, redness, blistering or irritation occurs seek medical assistance.

Eye contact: If in eyes wash out immediately with water. In all cases of eye contamination it is a sensible precaution to seek medical advice.

Ingestion: Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water to drink. Never give anything by the mouth to an unconscious patient. If vomiting occurs give further water. Seek medical advice.

Notes to physician: Treat symptomatically.

SECTION 5 Fire Fighting Measures

Specific hazards: Non-combustible material.

Fire fighting further advice: If involved in a fire may emit toxic fumes. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion.

Hazchem Code: Not applicable.

Suitable extinguishing media: Not combustible, however, if material is involved in a fire use water fog (or if unavailable fine water spray), foam, dry agent (carbon dioxide, dry chemical powder).

SECTION 6 Accidental Release Measures

Small Spills

Wear protective equipment to prevent skin and eye contamination. Wipe up with absorbent (clean rag or paper towels). Collect and seal in properly labelled containers or drums for disposal.

Large Spills

Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination and the inhalation of dust. Work up wind or increase ventilation. Cover with damp absorbent (inert material, sand or soil). Sweep or vacuum up, but avoid generating dust. Collect and seal in properly labelled containers or drums for disposal.
Slippery when spilt. Avoid accidents, clean up immediately.

Dangerous Goods- Initial Emergency Response Guide No: Not applicable.

SECTION 7 HANDLING AND STORAGE

Handling: Avoid skin and eye contact and inhalation of dust.

Storage: Store in a cool, dry, well ventilated place and out of direct sunlight. Store away from incompatible materials described in Section 10. Keep containers closed when not in use- check regularly for spills.

National occupational exposure limits:
No value assigned for this specific material by the National Occupational Health and Safety Commission (NOHSC Australia).

However for:

	ppm	TWA Mg/m3	Ppm	STEL Mg/m3	Carcinogen Category	Notices
Calcium Carbonate	-	10	-	-	-	-
Quartz	-	0.2	-	-	-	-
Inspirable Dust	-	10	-	-	-	-
Gypsum*	-	5	-	-	-	-
Calcium bentonite*	-	10	-	-	-	-

As published by the National Occupational Health & Safety Commission (NOHSC Australia).
* Suppliers recommendation.

TWA - The tme-weighted average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life.

STEL (Short Term Exposure Limit) -the average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour workday.

These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept too as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

If the directions for use on the product label are followed, exposure of individuals using the product should not exceed the above standard. The standard was created for workers who are routinely, potentially exposed during product manufacture.

Biological Limit Values: As per the "National Model Regulations for the Control of Workplace Hazardous Substances [NOHSC: 1005 (1994))" the following ingredients in this material requires Health Surveillance:
Crystalline silica.
For detailed information see "Guidelines for Health Surveillance [NOHSC: 7039 (1995)r

Engineering measures: Ensure ventilation is adequate to maintain air concentrations below Exposure Standards. Avoid generating and inhaling dusts. Use with local exhaust ventilation or while wearing dust mask.

Personal protection equipment: OVERALLS, SAFETY SHOES, SAFETY GLASSES, GLOVES, DUST MASK.

Wear overalls, safety glasses and impervious gloves. Avoid generating and inhaling dusts. If dust exists, wear dust mask/respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Available information suggests that gloves made from polyvinyl chloride (PVC) should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

SECTION 8 PHYSICAL & CHEMICAL PROPERTIES

Form/Colour/Odour: Pale grey-brown granular powder. Puggy when wet

Solubility:	N Av
Specific Gravity (20degC):	1.2 – 1.6
Relative Vapour Density (air=1):	N App
Vapour Pressure (20degC):	N App
Flash Point:	N App
Flammability Limits (%):	N App
Autoignition Temp (degC):	N App
Melting Point/Range (degC):	N App
Boiling Point/Range (degC):	N App
Ph (1:5 Slurry):	N App

Typical values only – Consult specification sheet. N Av = Not available N App = Not applicable

SECTION 9 STABILITY & REACTIVITY

Chemical stability:	This material is thermally unstable.
Conditions to avoid:	No information available.
Incompatible:	Incompatible with acids.
Hazardous decomposition products:	No information available.
Hazardous reactions:	No information available.

SECTION 10 TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and over exposure occurs are:

Acute Effects
Inhalation: Material may be an irritant to mucous membranes and respiratory tract.

Skin contact: Contact with skin may result in irritation. Repeated or prolonged skin contact may lead to irritation.

Eye contact: Exposure to the dust may cause discomfort due to particulate nature. May cause physical irritation to the eyes.

Ingestion: Swallowing can result in nausea, vomiting and irritation of the gastrointestinal tract.

Long Term Effects: Repeated inhalation of dust containing crystalline silica can cause bronchitis, silicosis (scarring of the lung) and lung cancer. It may also increase the risk of scierodema (a disease affecting the connective tissue of the skin, joints, blood vessels and internal organs)

Acute toxicity / Chronic toxicity
No LD50 data available for the product.

SECTION 11 ECOLOGICAL INFORMATION

Avoid contaminating waterways.
Ecotoxicity: No information available.
Persistance and degradability: No information available.
Mobility: No information available.

SECTION 12 DISPOSAL INFORMATION

Refer to state/territory land waste management authority.

SECTION 13 TRANSPORT INFORMATION

ROAD AND RAIL TRANSPORT
Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail.

MARINE TRANSPORT
Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code} for transport by sea.

AIR TRANSPORT
Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

SECTION 14 REGULATORY INFORMATION

Poisons Schedule (Aust): Not applicable

All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS).

SECTION 15 OTHER INFORMATION

This MSDS summarises at the date of issue our best knowledge of the health and safety hazard information of the product, and in particular how to safely handle and use the product in the workplace. Since Cathodic Diecasting cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this MSDS in the context of how the user intends to handle and use the product in the workplace.