

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

<b>Product Name</b>	<b>SANDS</b>
<b>Supplier Name</b>	<b>ADELAIDE BRIGHTON CEMENT</b> A.B.N. 96 007 870 199
<b>Address</b>	62 Elder Road, Birkenhead, SA 5015
<b>Manufacturing Plant</b>	Birkenhead Works, 62 Elder Road, Birkenhead, SA 5015
<b>Telephone</b>	08 8300 0300
<b>Fax</b>	08 8341 1591
<b>Emergency</b>	Bus Hrs 08 8300 0300 A/Hrs 08 8300 0530
<b>Email</b>	orderstodespatch@adbri.com.au
<b>Web Site</b>	<a href="http://www.drypak.com.au">http://www.drypak.com.au</a>
<b>Synonym(s)</b>	SUPER SAND, DRIED SAND, PAVE SET, PAVING SAND, SAND
<b>Use(s)</b>	Gap filling or paving, eg roadways, areas of heavy traffic movement, high wind areas, areas where sand/cement joints would stain the paver.

## 2. HAZARDS IDENTIFICATION

This product is classified as hazardous according to criteria of NOHSC.  
Not classified as a dangerous good by the criteria of the ADG Code.

### RISK PHRASES

R36/37/38	Irritating to eyes, respiratory system and skin.
R40	Limited evidence of a carcinogenic effect.
R43	May cause sensitisation by skin contact.
R48/20	Harmful : danger of serious damage to health by prolonged exposure through inhalation.

### SAFETY PHRASES

S20/21	When using do not eat, drink or smoke.
S22	Do not breathe dust.
S24/25	Avoid contact with skin and eyes.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37	Wear suitable protective clothing and gloves.
S38	In case of insufficient ventilation, wear suitable respiratory equipment.
S39	Wear eye/face protection.

<b>UN No</b>	None Allocated	<b>Hazchem Code</b>	None Allocated	<b>Pkg Group</b>	None Allocated
<b>DG Class</b>	None Allocated	<b>Subsidiary Risk(s)</b>	None Allocated	<b>EPG</b>	None Allocated

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	Formula	Conc.	CAS No.
CRYSTALLINE SILICA	Quartz SiO <sub>2</sub>	<99.9%	14808-60-7
PORTLAND CEMENT	Not Available	<2%	65997-15-1
ADDITIVES	Not Available	<2%	-

## 4. FIRST AID MEASURES

<b>Eye</b>	Flush thoroughly with flowing water for at least 15 minutes. Seek medical attention if symptoms persist.
<b>Inhalation</b>	Remove from dusty area to fresh air. If symptoms persist, seek medical attention.
<b>Skin</b>	Wash thoroughly with water. A shower may be required.

<b>Ingestion</b>	Rinse mouth and lips with water. Do not induce vomiting. Give water to drink to dilute stomach contents. If symptoms persist, seek medical attention.
<b>Advice to Doctor</b>	Treat symptomatically.
<b>First Aid Facilities</b>	Eye wash station.

**Additional Information - Aggravated Medical Conditions**

<b>Inhalation</b>	Inhalation of dust through prolonged, repeated exposure can cause bronchitis, silicosis (scarring of the lung.) It may also increase the risk of scleroderma (a disease affecting the connective tissue of the skin, joints, blood vessels and internal organs) and lung cancer. Epidemiological studies have shown that smoking increases the risk of bronchitis, silicosis (scarring of the lung) and lung cancer.
<b>Skin</b>	Prolonged and repeated skin contact may cause abrasions.

**5. FIRE FIGHTING**

<b>Flammability</b>	Non flammable. Does not support combustion of other materials.
<b>Fire and Explosion</b>	Non flammable. Does not cause dust explosions.
<b>Extinguishing</b>	Non flammable.
<b>Hazchem Code</b>	None.

**6. ACCIDENTAL RELEASE MEASURES**

<b>Spillage</b>	Wear dust-proof goggles, PVC/rubber gloves, a Class P2 respirator (where an inhalation risk exists), coveralls and rubber boots. Clear area of all unprotected personnel. Prevent spill entering drains or waterways. Collect and place in sealable containers for disposal or reuse. Avoid generating dust.
<b>Emergency Procedures</b>	Follow safety requirements for personal protection under Section 8 Exposure Controls/Personal Protection.

**7. HANDLING AND STORAGE**

<b>Storage</b>	Store off the floor, in the original bags in cool, dry, well ventilated area, removed from moisture, oxidising agents (eg. Hypochlorites, phosphorus oxide), acids, (eg hydrochloric acid), ethanol, interhalogens (eg. chlorine trifluoride) and foodstuffs. Ensure packages are adequately labelled, protected from physical damage and sealed when not in use.
<b>Handling</b>	DryPak Sands are supplied in 20kg and 30kg bags. Recognised local safe lifting methods should be used. Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.
<b>Property/ Environmental</b>	Refer to Section 13.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

<b>Ventilation</b>	Do not inhale dust/powder. Use with adequate ventilation. Where a dust inhalation hazard exists, mechanical extraction ventilation is recommended. Maintain dust levels below the recommended exposure standard.
<b>Exposure Standards</b>	SILICA, CRYSTALLINE – QUARTZ (14808-60-7) ES-TWA: 0.1 mg/m <sup>3</sup> (Silica Quartz, respirable, NOHSC) ES-TWA: 0.1 mg/m <sup>3</sup> (QLD); 0.15 mg/m <sup>3</sup> (NSW) WES-TWA: 0.1 mg/m <sup>3</sup>

**PPE** Wear dust-proof goggles and rubber or PVC gloves. Where an inhalation risk exists, wear a Class P2 respirator. If there is potential for prolonged and/or excessive skin contact, wear coveralls. At high dust levels, wear a Class P3 respirator or a Powered Air Purifying Respirator (PAPR) with Class P3 filter.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Off white to yellow sand containing aggregate particles up to 1 mm nominal size.	<b>Solubility (water)</b>	Insoluble
<b>Odour</b>	Odourless	<b>Specific Gravity</b>	2.7 Average
<b>pH</b>	Approximately 7	<b>% Volatiles</b>	Not Available
<b>Vapour Pressure</b>	Not Available	<b>Flammability</b>	Non Flammable
<b>Vapour Density</b>	Not Available	<b>Flash Point</b>	Not Relevant
<b>Boiling Point</b>	Not Available	<b>Upper Explosion Limit</b>	Not Relevant
<b>Melting Point</b>	Not Available	<b>Lower Explosion Limit</b>	Not Relevant
<b>Evaporation Rate</b>	Not Available	<b>Autoignition Temperature</b>	Not Available
<b>Bulk Density</b>	1,450 kg/m <sup>3</sup> (approximately)		
<b>Particle Size</b>	< 1 mm		

## 10. STABILITY AND REACTIVITY

**Reactivity** Incompatible with oxidising agents (eg hypochlorites), ethanol, acids (eg hydrofluoric acid) and interhalogens (eg chlorine trifluoride).

**Decomposition Products** May evolve toxic gases when heated to decomposition.

## 11. TOXICOLOGICAL INFORMATION

**Health Hazard Summary** Low irritant. High chronic toxicity. Adverse health effects are usually associated with long term exposure to high dust levels. Avoid dust generation. Chronic exposure may cause lung fibrosis (silicosis). Crystalline quartz is classified as carcinogenic to humans (IARC Group 1). Symptoms may be delayed 12 - 24 months after heavy exposure. The risk of disease is increased by smoking.

**Eye** Low irritant. Exposure may result in irritation and lacrimation.

**Inhalation** Low irritant. Over exposure at high levels may result in irritation of the nose and throat with coughing. Prolonged and repeated inhalation of respirable silica may result in pulmonary fibrosis (silicosis). Crystalline quartz is classified as carcinogenic to humans (IARC Group 1).

**Skin** Low irritant. Prolonged and repeated exposure to dust may result in irritation and dermatitis.

**Ingestion** Low toxicity. This product is biologically inert. However, ingestion may result in gastrointestinal irritation due to the powder's mechanical action.

**Toxicity Data** SILICA, CRYSTALLINE - QUARTZ (14808-60-7)  
Carcinogenicity: Classified as a human carcinogen (IARC Group 1)

## 12. ECOLOGICAL INFORMATION

**Environment** Limited ecotoxicity data was available for this product at the time this report was prepared. Ensure appropriate measures are taken to prevent this product from entering the environment.

## 13. DISPOSAL CONSIDERATIONS

**Waste Disposal** Reuse or recycle where possible. Alternatively, ensure product is covered with moist soil to prevent dust generation and dispose of to an approved landfill site. Contact the manufacturer for additional information.

**Legislation** Dispose of in accordance with relevant local legislation. Keep out of sewer and stormwater drains.

#### 14. TRANSPORT INFORMATION

Not classified as a dangerous good by the criteria of the ADG Code.

Drivers of trucks transporting bagged product should ensure that the bags are properly restrained.

<b>Shipping Name</b>	None Allocated	<b>Hazchem Code</b>	None Allocated	<b>Pkg Group</b>	None Allocated
<b>UN No</b>	None Allocated	<b>Subsidiary Risk(s)</b>	None Allocated	<b>EPG</b>	None Allocated
<b>DG Class</b>	None Allocated				

#### 15. REGULATORY INFORMATION

**Poison Schedule AICS** A poison schedule number has not been allocated to this product using the criteria in the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).  
All chemicals listed on the Australian Inventory of Chemical Substances (AICS).

#### 16. OTHER INFORMATION

**Additional Information**

IARC – GROUP 1 – PROVEN HUMAN CARCINOGEN. This product contains an ingredient for which there is sufficient evidence to have been classified by the International Agency for Research into Cancer as a human carcinogen. The use of products known to be human carcinogens should be strictly monitored and controlled.

**RESPIRATORS:** In general the use of respirators should be limited and engineering controls employed to avoid exposure. If respiratory equipment must be worn ensure correct respirator selection and training is undertaken. Remember that some respirators may be extremely uncomfortable when used for long periods. The use of air powered or air supplied respirators should be considered where prolonged or repeated use is necessary.

**PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:** The Recommendation for protective equipment contained within this MSDS report is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

**HEALTH EFFECTS FROM EXPOSURE:** It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare an MSDS report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

**ABBREVIATIONS:**

mg/m<sup>3</sup> – Milligrams per cubic metre

ppm – Parts Per Million

ES-TWA – Exposure Standard - Time Weighted Average

CNS – Central Nervous System

NOS – Not Otherwise Specified

pH – relates to hydrogen ion concentration – this value will relate to a scale of 0 – 14, where 0 is highly acidic and 14 is highly alkaline.

CAS# - Chemical Abstract Service Number – used to uniquely identify chemical compounds.

IARC – International Agency for Research on Cancer.

WES-TWA – Workplace Exposure Standard – Time Weighted Average

