Safety Data Sheet



SULFATE RESISTING CEMENT

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name	SULFATE RESISTING CEMENT
Supplier Name	ADELAIDE BRIGHTON CEMENT LTD ABN 96 007 870 199
Address	62 Elder Road, Birkenhead, SA 5015
Manufacturing Plant	Birkenhead Works, 62 Elder Road, Birkenhead, SA 5015
Telephone	08 8300 0300
Fax	08 8341 1591
Emergency	Bus Hrs 08 8300 0300 A/Hrs 08 8300 0530
Email	customerservice@adbri.com.au
Web Site	www.adelaidebrighton.com.au
Synonym(s)	TYPE SR, SULFATE RESISTANT.

Synonym(s)TYPE SR, SULFATE RESISTANT.Use(s)Sulfate Resisting Cement is used as a binder in structural concrete, masonry, renders,
mortars and grouts. It is also used as a general binder in cementitious backfill in
underground mines, in the manufacture of fibre cement products and in soil stabilisation in
construction and civil engineering projects.

2. HAZARDS IDENTIFICATION

This product is classified as hazardous according to Safe Work Australia criteria. Not classified as a dangerous good by the criteria of the ADG code, IMDG or IATA.

GHS Classifications

Skin Corrosion/Irritation: Skin Sensitization: Serious Eye Damage / Eye Irritation: Specific Target Organ Systemic Toxicity (Repeated Exposure): Category 2 Category 1B Category 1 Category 2

SIGNAL WORD Pictograms

DANGER



Hazard statements

H315	Causes skin irritation.
H317	May cause an allergic skin reaction
H318	Causes serious eye damage.
H373	May cause damage to lungs and respiratory tract through prolonged or repeated
	exposure

Prevention statements

P260Do not breathe dust.P280Wear protective gloves/protective clothing/eye protection/face protection.

Response statements

P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P340	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if
	present and easy to do. Continue rinsing.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.

Disposal statements P501

Dispose of contents/container in accordance with relevant regulations.

UN No DG Class	None Allocated None Allocated	Hazchem Co Subsidiary		None Allocate None Allocate	J J J J J	None Allocated None Allocated
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3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	Formula	Conc. <40%	CAS No.
PORTLAND CEMENT CLINKER	Not Available		65997-15-1
GROUND GRANULATED BLAST FURNACE	Not Available	<70%	65997-69-2
GYPSUM	CaSO ₄ 2H ₂ O	3 - 8%	10101-41-4
CHROMIUM (VI) HEXAVALENT	Cr ⁶⁺	Trace	18540-29-9

4. FIRST AID MEASURES

Eye Flush thoroughly with flowing water for at least 15 minutes and seek medical attention if symptoms persist. If wet cement is splashed into the eyes flush thoroughly with flowing water for 15 minutes and seek urgent medical attention.

Inhalation Remove from dusty area to fresh air. If symptoms persist, seek medical attention.

SkinRemove heavily contaminated clothing immediately. Wash off skin thoroughly with water.
A shower may be required. Seek medical attention for persistant irritation or burning of
the skin

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

Additional Information - Aggravated Medical Conditions

- **Inhalation** Over exposure resulting from prolonged and repeated inhalation of dust containing crystalline silica (found in this product below the reportable limit) 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 (scaring of the lung) and lung cancer in persons exposed to crystalline silica.
- **Skin** Prolonged and repeated skin contact with cement in wet concrete, mortars and slurries may result in irritant dermatitis or alkaline burns.
- **Eye** Irritating to the eye. If wet cement is splashed into the eye alkaline burns can cause permanent damage.

5. FIRE FIGHTING

Flammability	Non flammable. Does not support combustion of other materials.
Fire and Explosion	No fire or explosion hazard exists.
Extinguishing Hazchem Code	Non flammable; use suitable extinguishing agent for surrounding fire.
Hazchem Coue	None.



6. ACCIDENTAL RELEASE MEASURES

Spillage	If spilt (bulk), contact emergency services if appropriate. 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.
Emergency Procedures	Follow safety requirements for personal protection under Section 8 Exposure Controls/Personal Protection.

7. HANDLING AND STORAGE

StorageStore in a cool, dry, well ventilated area, removed from excessive moisture and heat.Storage of bulk cement may be in concrete silos or steel bins. Ensure packages are
adequately labelled, protected from physical damage and sealed when not in use.

Handling 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.

Property/ Refer to Section 13. Environmental

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation	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.
Exposure Standards	CHROMIUM (VI) HEXAVALENT (18540-29-9) ES-TWA: 0.05 mg/m ³ (Chromium VI Compounds) GYPSUM (10101-41-4) ES-TWA: 10 mg/m ³ (Respirable Dust) PORTLAND CEMENT (65997-15-1) ES-TWA: 10 mg/m ³ (Respirable Dust) SILICA, CRYSTALLINE – QUARTZ (14808-60-7) ES-TWA: 0.1 mg/m ³ (Respirable Dust)
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.





PHYSICAL AND CHEMICAL PROPERTIES 9.

Appearance	Fine light grey powder	Solubility (water)
Odour	Odourless	Specific Gravity
pН	Approximately 12	% Volatiles
Vapour Pressure	Not Available	Flammability
Vapour Density	Not Available	Flash Point
Boiling Point	Not Available	Upper Explosion Limit
Melting Point	> 1200°C	Lower Explosion Limit
Evaporation Rate	Not Available	Autoignition
		Temperature
Bulk Density	1200 - 1600 kg/m3	
Particle Size	20 - 40% of particles are <	< 7 µm (Respirable range)

Slight, hardens on mixing with water 2.5 to 3.2 Not Available Non Flammable Not Relevant Not Relevant Not Relevant Not Available

10. STABILITY AND REACTIVITY

Chemical Stability Chemically Stable

Conditions to Avoid Keep free of moisture

Incompatible with oxidising agents (eq hypochlorites), ethanol, acids (eq hydrofluoric acid) Incompatible Materials and interhalogens (eq chlorine trifluoride). Water contact may increase product

Decomposition Unlikely to evolve toxic gases when heated to decomposition.

Hazardous Reactions None

Products

11. TOXICOLOGICAL INFORMATION

Acute Toxicity	No	known	toxicity	data	available	for	this	product.	Based	on	available	data,	the
	clas	sificatio	n criteria	is not	met.								

Irritant upon contact with dust. Over exposure may result in pain, redness, corneal burns Eye and ulceration with possible permanent damage.

Inhalation Irritating to the respiratory system causing coughing and sneezing. Over exposure may result in severe mucous membrane irritation and bronchitis. Hexavalent Chromium is reported to cause respiratory sensitisation, however due to the trace amount present, a hazard is not anticipated under normal conditions of use. Crystalline silica (found in this product below the reportable limit) can cause silicosis (lung disease) with chronic over exposure, however due to low levels present and product application, adverse health effects are not anticipated.

Skin Irritating to the skin. Prolonged and repeated contact with powder or wetted form may result in skin rash, dermatitis and sensitisation.

Ingestion Slightly corrosive. Ingestion may result in burns to the mouth and throat, with vomiting and abdominal pain. Due to product form, ingestion is not considered a likely exposure route.

Mutagenicity Insufficient data available for this product to classify as a mutagen.



Carcinogenicity Sulfate Resisting Cement is not classified as a carcinogen by NOHSC. Crystalline silica and hexavalent chromium compounds are classified as carcinogenic to humans (IARC Group 1), however due to low levels present and product application the criteria for classification is not met.

12. ECOLOGICAL INFORMATION

- **Toxicity**Product forms an alkaline slurry when mixed with water. This product is non toxic to
aquatic life forms when present in cured solid form. Large quantities, especially in static
water, will result in increased pH levels which may result in death of aquatic life.
- Persistence & Product is persistent and would have a low degradability. Degradability

Mobility in soil A low mobility would be expected in a landfill situation.

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.

Transport is by rail or road in bulk or bag form.

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

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

15. REGULATORY INFORMATION

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

16. OTHER INFORMATION

AdditionalCEMENT CONTACT DERMATITIS: Individuals using wet cement, mortar, grout or concrete
could be at risk of developing cement dermatitis. Symptoms of exposure include itchy,
tender, swollen, hot, cracked or blistering skin with the potential for sensitisation. The
dermatitis is due to the presence of soluble hexavalent chromium.



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 SDS 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 SDS report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

ABBREVIATIONS: SDS - Safety Data Sheet mg/m³ – 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 **Report Status** This document has been compiled by Adelaide Brighton Cement the manufacturer of the product and serves as the manufacturer's Safety Data Sheet. While the information in this Safety Data Sheet has been prepared in good faith, Adelaide Brighton Cement Limited does not warrant that the information is accurate, complete or up to date.

Contact Point For further information on this product contact:

Telephone:	Office hours	08 8300 0300
	After hours	08 8300 0530
Facsimile:		08 8341 1591
Web site:		www.adelaidebrighton.com.au



Advice Note The information in this document is believed to be accurate. Please check the currency of this SDS by contacting:

08 8300 0300

or www.adelaidebrighton.com.au

Each user of any information, or any product referred to, in this Safety Data Sheet must:

- determine whether the information or product is suitable for their purpose;
- assess and control any risks associated with the information or product; and

• obtain professional advice in relation to the use of the information or product.

- To the extent permitted by law, Adelaide Brighton Cement Limited:
- excludes all representations, warranties and guarantees in relation to any information in this Safety Data Sheet; and
- will not be liable for any direct, indirect, consequential, incidental, special or economic loss (including but not limited to any loss of actual or anticipated profits, revenue, savings, production, business, opportunity, access to markets, goodwill, reputation, publicity, or use) arising from any use of or reliance on any information in this Safety Data Sheet.