

## SAFETY DATA SHEET

## Fly Ash

## Section 1: Identification of the Material and Supplier

## Company Details

## Cement Australia Pty Limited

ABN 75 104 053 474

18 Station Avenue  
Darra, Queensland 4076Tel: 1300 CEMENT (1300 236 368)  
Fax: 1800 CEMENT (1800 236 368)  
Website: www.cementaustralia.com.au

## Emergency Contact Number:

Contact Person: Technical Manager  
Telephone: 1300 CEMENT (1300 236 368 - Business Hours) or  
Poisons Information Centre 13 11 26

## Manufacturing Plants

## Gladstone Power Station:

Port Curtis Way, Callemondah Queensland 4680

## Callide Power Station:

Callide Dam Road, Mt Murchison Queensland 4715

## Flyash Australia Pty Ltd:

Eraring, Bayswater and Mt Piper Power Stations. Head Office - 12 Tryon Road,  
Lindfield New South Wales 2070

## Product

## Name:

Fly Ash

## Other Names:

Gladstone Ash  
Callide Ash  
Melbourne Ash (Blend of Gladstone and Callide Ash)  
Central Queensland Ash (Blend of Gladstone and Callide Ash)  
North Queensland Ash (Blend of various QLD Ash sources)  
NSW Ash (Blend of Gladstone and Callide Ash)  
Kaolite High Performance Ash (HPA, Special Grade Fly Ash, Ultrafine Fly Ash)  
Sydney Ash (Blend of Eraring and Mt Piper Ash and/or Bayswater Ash)

## Use:

Supplementary cementitious material for concrete. Also, used in soil stabilisation and as a fine filler in asphalt and other products.

Fly Ash (CAS - 68131-74-8) composition varies based on the Source Coal used at various power stations. These numbers reflect the various ranges in composition and the SDS covers the highest GHS rating based on the product with the highest concentration.

## Section 2: Hazards Identification

Hazardous Substance. Non-dangerous Goods

Specific Target Organ Systemic Toxicity (Repeated Exposure): **Category 2**Serious Eye Damage / Eye Irritation: **Category 2A**Skin Corrosion/Irritation: **Category 2**Specific Target Organ Systemic Toxicity (Single Exposure): **Category 3**

DANGER

For more information call 1300 CEMENT (1300 236 368)  
or visit [www.cementaustralia.com.au](http://www.cementaustralia.com.au)*Mix it with the best.*

**Hazard statement(s)**

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure (lungs).

**Prevention statement(s)**

P264	Wash skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection rated for Dust.
P260 + P261	Avoid/Do not breathe dust. Cement can become easily airborne.

**Response statement(s)**

P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P304 + P340 + P305	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
P337 + P313	
P314 + P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P321	Specific treatment is advised - see first aid instructions.
P362	Take off contaminated clothing and wash before re-use.

**Storage statement(s)**

P403 + P233	Store in a well-ventilated place.
P405	Keep container tightly closed. Store locked up.

**Disposal statement(s)**

P501	Dispose of contents/container in accordance with relevant regulations.
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## Section 3: Composition/Information on Ingredients

Fly Ash (CAS - 68131-74-8) composition varies based on the Source Coal used at power station. These numbers reflect the various ranges in composition and the SDS covers the highest GHS rating based on the product with the highest concentration.

Chemical Entity	Proportion	CAS Number
Mullite	5-30%	1302-93-8
Crystalline Silica (Quartz)	<5.0%	14808-60-7
Hexavalent Chromium Cr (VI)	<1ppm	18540-29-9

Note: It should be assumed that silica content is sufficient to create a silica hazard in work conditions where fine dust becomes airborne.

## Section 4: First Aid Measures

<b>Swallowed:</b>	Wash mouth with water. Give plenty of water to drink. Do not induce vomiting. Seek medical advice if symptoms persist.
<b>Eyes:</b>	Flush thoroughly with flowing water for 15 minutes to remove all traces. If symptoms or irritation persist, seek medical attention.
<b>Skin:</b>	Wash with soap and water. Remove and wash affected clothing before reuse.
<b>Inhaled:</b>	Remove to fresh air, away from dusty area. If symptoms persist, seek medical attention.
<b>First Aid Facilities:</b>	Eye wash station.
<b>Advice to Doctor:</b>	Treat symptomatically

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## Section 5: Fire Fighting Measures

<b>Fire/Explosion Hazard:</b>	None
<b>Hazchem Code:</b>	None allocated
<b>Flammability:</b>	Not flammable
<b>Extinguishing Media:</b>	None required
<b>Hazards from Combustion Products:</b>	None
<b>Special Protective Precautions and equipment for fire fighters:</b>	None

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## Section 6: Accidental Release Measures

<b>Spills:</b>	A fine water spray should be used to suppress dust when sweeping. Wet sweep or vacuum dust with industrial vacuum cleaner.
<b>Clean up Procedure</b>	Work areas should be cleaned regularly by wet sweeping or vacuuming. Collect in containers and dispose of as trade waste in accordance with local authority guidelines. Keep out of stormwater and sewer drains. Personal protection recommendations should be followed – see Section 8.

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## Section 7: Handling and Storage

<b>Storage:</b>	Keep in a dry place.
<b>Conditions of safe storage:</b>	When handled pneumatically use standard dust filters on vehicles and silos.
<b>Incompatibilities:</b>	None

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## Section 8: Exposure Controls/Personal Protection

### 8.1 Control parameters

#### Exposure standards

Ingredient	Reference	TWA		STEL	
		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Silica – Crystalline Quartz (respirable dust)	SWA (AUS)	--	0.1	--	--
Chromium (VI) compounds (as Cr)	SWA (AUS)	--	0.05	--	--

### 8.2 Exposure controls

**Engineering controls** Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical extraction ventilation is recommended. Maintain dust levels below the recommended exposure standard.

#### PPE

<b>Eye / Face</b>	Wear safety glasses or dust-proof goggles when handling material to avoid contact with eyes.
<b>Hands</b>	Wear PVC, rubber or cotton gloves when handling material to prevent skin contact.
<b>Body</b>	Wear long sleeved shirt and full-length trousers.
<b>Respiratory</b>	Where an inhalation risk exists wear a Class P1 (Particulate) respirator, dependent on a site-specific risk assessment.

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## Section 9: Physical and Chemical Properties

<b>Appearance:</b>	Fine powder – light grey to fawn
<b>Odour:</b>	No odour
<b>Boiling/Melting Point:</b>	Melting point >1400°C
<b>Vapour Pressure:</b>	Not applicable
<b>Specific Gravity:</b>	2.35 - 2.40
<b>Flash Point:</b>	Not flammable
<b>Flammability Limits:</b>	Not applicable
<b>Solubility in Water:</b>	Essentially insoluble
<b>Particle Size:</b>	Approximately 40% of particles are respirable (≤7 micron in diameter)

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## Section 10: Stability and Reactivity

<b>Chemical Stability:</b>	Chemically stable
<b>Conditions to Avoid:</b>	None
<b>Incompatible Materials:</b>	None
<b>Hazardous Decomposition Products:</b>	None
<b>Hazardous Reactions:</b>	None

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## Section 11: Toxicological Information

<b>Acute toxicity</b>	Has a caustic reaction and is corrosive to the mouth and throat.
<b>Skin</b>	Irritating to the skin. Contact with powder or wetted form may result in caustic reaction, rash and dermatitis.
<b>Eye</b>	Irritation and corrosive to the eyes. May cause chemical conjunctivitis and redness and watering of eyes and damage to cornea.
<b>Sensitization</b>	Irritating and drying to the skin. May cause alkali burns and irritant or allergic dermatitis.
<b>Mutagenicity</b>	Insufficient data available to classify as a mutagen.
<b>Carcinogenicity</b>	This product contains crystalline silica which is classified as carcinogenic to humans (IARC Group 1). However, there is sufficient information to conclude that the relative risk of lung cancer is increased in persons with silicosis. Therefore, preventing the onset of silicosis will also reduce the cancer risk.
<b>Reproductive</b>	Insufficient data available to classify as a reproductive toxin.
<b>STOT – single exposure</b>	Irritating to the respiratory system. Over exposure may result in irritation of the nose and throat, with coughing. High level exposure may result in breathing difficulties.
<b>STOT – repeated exposure</b>	Repeated exposure to respirable silica may result in pulmonary fibrosis (silicosis). Silicosis is a fibronodular lung disease caused deposition in the lungs of fine respirable particles of crystalline silica. Principal symptoms of silicosis are coughing and breathlessness. In the wet state, the likelihood of an inhalation hazard is reduced.
<b>Aspiration</b>	This product is a solid and aspiration hazards are not expected to occur.

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## Section 12: Ecological Information

<b>Ecotoxicity:</b>	Unlikely to have a negative impact on plant life or animals.
<b>Persistence and Degradability:</b>	Product is persistent and would have a low degradability.
<b>Mobility:</b>	A low mobility would be expected in a landfill setting.

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## Section 13: Disposal Considerations

Follow personal protection safety requirements. Collect in containers and dispose as trade waste and land fill in accordance with local authority guidelines. Keep out of stormwater and sewer drains.

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## Section 14: Transport Information

<b>UN Number:</b>	None allocated
<b>Proper Shipping Name:</b>	None allocated
<b>Class and Subsidiary Risk:</b>	Not applicable
<b>Packing Group:</b>	None allocated
<b>Special precautions for user:</b>	Avoid generating and breathing dust
<b>Hazchem Code:</b>	None allocated

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## Section 15: Regulatory Information

Classified as non-Dangerous Goods.

Classified as Hazardous per the criteria of the National Occupational Health and Safety Commission (NOHSC) Approved Criteria for Classifying Hazardous Substances [NOHSC: 1008] 3rd Edition

All chemicals listed on the Australian Inventory of Chemical Substances (AICS)

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## Section 16: Other Information

**For further information on this product contact:**      **Telephone:** 1300 CEMENT (1300 236 368 - Business Hours)  
**Facsimile:** 1800 CEMENT (1800 236 368)

**Previous Edition: 2014** – GHS Compliance edits made and supplementary compliance edits added.

**Next Review Date for this MSDS: 31 December 2020.**

## Australian and New Zealand Standards:

AS 2161: Industrial Safety Gloves and Mittens (excluding electrical and medical gloves).

AS/NZ 1336: Recommended Practices for Occupational Eye Protection.

AS/NZS 1715: Selection, use and maintenance of respiratory protective devices.

AS/NZS 1716: Respiratory protective devices.

AS/NZS 4501: Occupational protective clothing.

## Advice Note:

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Users should rely on their own knowledge and inquiries and make their own determination as to the applicability of this information in relation to their particular purposes and specific circumstances. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace and in conjunction with other substances or products.