



# **bulbeck**fire

## **SAFETY DATA SHEET**

### **SECTION 1 - IDENTIFICATION**

PRODUCT NAME: **BFI ABE DRY CHEMICAL POWDER FIRE EXTINGUISHER**

*Classified as Hazardous*

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<b>GHS Product Identifier</b>	BULBECK ABE DRY CHEMICAL POWDER FIRE EXTINGUISHER
<b>Company Name:</b>	BULBECK FIRE
<b>Address:</b>	4 Channel Road MAYFIELD WEST NSW 2304 Australia
<b>Telephone Number:</b>	+61 249 27 6632
<b>Emergency Number:</b>	
<b>Recommended use And Restrictions of use on the chemical:</b>	For extinguishing fires
<b>Other names:</b>	
<b>Product Code:</b>	

### **SECTION 2 - HAZARD IDENTIFICATION**

#### **GHS Classification of substance/mixture**

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Classified as hazardous according to the globally harmonised System of classification and labelling of chemicals (GHS) including Work Health and Safety regulations, Australia. Classified as dangerous goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition) Gases under Pressure: Dissolved Gas (Nitrogen)

#### **Signal Word (s)**

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Warning

#### **Hazard Statement (s)**

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H280 Contains gas under pressure; may explode if heated.



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## SAFETY DATA SHEET

### Pictogram (s)



Gas cylinder

### Precautionary Statement - Storage

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P410+P403 Protect from sunlight. Store in a well-ventilated place.

### Precautionary statement – Disposal

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P501 Dispose of contents/container to an approved waste disposal plant.

## SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

### Ingredients

NAME	CAS	PROPORTION
NITROGEN	7727-37-9	<2%
MICA	12001-26-2	<5%
AMMONIUM SULPHATE	7783-20-2	<6.5%
MONOAMMONIUM PHOSPHATE	7722-76-1	80 to 86%
METHYL HYDROGEN POLYSILOXANE	63148-57-2	<1%



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## SAFETY DATA SHEET

### SECTION 4 – FIRST AID MEASURES

<b>Eye Contact</b>	If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre, a doctor, or for at least 15 minutes.
<b>Inhalation</b>	If inhaled, remove affected person from contaminated area. apply artificial respiration if not breathing.
<b>Skin</b>	If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water.
<b>Ingestion</b>	For advice, contact a Poisons Information Centre on 131 126 (Australia Wide). Wash out mouth with water. If swallowed, do not induce vomiting. Ingestion is considered unlikely due to product form.
<b>Advice to Doctor</b>	Treat symptomatically.
<b>First Aid Facilities</b>	Eyewash and washroom facilities should be provided.

### SECTION 5 – FIRE FIGHTING MEASURES

Product is an extinguishing media. Use appropriate fire extinguisher for surrounding environment.

<b>Flammability</b>	Non-flammable. May evolve toxic gases (phosphorus/nitrogen oxides, ammonia) when heated to decomposition.
<b>Fire and Explosion</b>	No fire or explosion hazard exists.
<b>Extinguishing</b>	Extinguishing agent.
<b>Specific Hazards Arising Substance or Mixture</b>	Exposure to fire may cause container to rupture/explode.
<b>Precautions in connection with Fire</b>	Fire fighters should wear Self-Contained Breathing Apparatus (SCBA) and full protective clothing to prevent exposure to vapours, fumes or products of combustion. Water spray may be used to cool down heat-exposed containers



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## SAFETY DATA SHEET

### SECTION 6 – ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	Wear Personal Protective Equipment as detailed in Section 8 of this SDS. Clear the area of all unprotected personnel. Contact emergency services where appropriate
<b>Environmental Precautions</b>	Try and stop release. Prevent product from entering drains and waterways.
<b>Methods of Cleaning Up</b>	Contain spillage, then cover/absorb spill with non-combustible absorbent material (vermiculite, sand or similar), collect and place in suitable containers for disposal.
<b>References</b>	See Sections 8 and 13 for exposure controls and disposal.

### SECTION 7 – HANDLING AND STORAGE

<b>Storage</b>	Store in an area designated for fire extinguishers. Signs should indicate fire extinguisher location. Extinguishers should be kept cool and dry and should not come into contact with any chemicals. Check regularly to ensure that extinguishers are in good working order. Store removed from incompatible substances.
<b>Handling</b>	Before use, carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact or inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

### SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Occupational Exposure Limit Values</b>	No exposure value assigned for this material by Safe Work, Australia. However, the available exposure limits for ingredients are listed below:
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## SAFETY DATA SHEET

### Exposure Limits

Ingredient	Reference	TWA		STEL	
		ppm	mg/m <sup>3</sup>	ppm	Mg/m <sup>3</sup>
Mica	Safe Work Australia	--	2.5	--	--

TWA (Time Weighted Average): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day week.

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

**Biological Limit Values** No biological limit allocated

**Appropriate Controls** Avoid inhalation. Use in well ventilated areas. In a fire situation, ventilation may be difficult to control. Contact emergency personnel. Maintain dust levels below the recommended exposure standard.

### PPE

NAME	
EYE/FACE	Wear dust-proof goggles
HANDS	Wear PVC or rubber gloves
BODY	Full length work clothes buttoned at neck and wrists.
RESPIRATORY	At high dust levels, wear a Class P1 (Particulate) respirator





# **bulbeck**fire

## **SAFETY DATA SHEET**

### **SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES**

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**POWDER**

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Appearance	Blue coloured powder
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Odour	Odourless
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Melting point	>100°C
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Boiling point	Not available
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Solubility in water	Soluble
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Specific Gravity	Not available
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pH	Not available
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Vapour Pressure	Not available
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Vapour Density (Air=1)	Not available
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Evaporation Rate	Not available
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Odour Threshold	Not available
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Viscosity	Not available
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Partition Coefficient	Not available
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n-octanol/water

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Flash Point	Not available
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Flammability	Non-flammable
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Auto-Ignition Temperature	Not applicable
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# **bulbeck**fire

## **SAFETY DATA SHEET**

<b>Upper Explosion Limit</b>	Not relevant
<b>Lower Explosion Limit</b>	Not relevant
<b>Viscosity</b>	Not available
<b>Partition Coefficient</b>	Not available
<b>Auto-Ignition Temperature</b>	Not relevant
<b>Decomposition Temperature</b>	Not available
<b>Explosive Properties</b>	Not available
<b>Oxidising Properties</b>	Not available
<b>Odour Threshold</b>	Not available
<b>% Volatiles</b>	Not available

### **SECTION 10 – STABILITY AND REACTIVITY**

<b>Reactivity Chemical Stability</b>	Reacts with incompatible materials. Stable under recommended conditions of storage. Do not mix with BC-type dry chemical extinguishing agents.
<b>Conditions to Avoid</b>	Avoid contact with humidity.
<b>Incompatible Materials to Avoid</b>	Strongly caustic materials.
<b>Hazardous Decomposition Products</b>	May evolve toxic gases (phosphorus/nitrogen oxides, ammonia) when heated to decomposition.
<b>Hazardous Polymerization</b>	Will not occur.



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## SAFETY DATA SHEET

### SECTION 11 – TOXICOLOGICAL INFORMATION

<b>Toxicology Information</b>	Not available		
<b>Ingestion</b>	Ingestion is considered unlikely due to product form.		
<b>Inhalation</b>	Inhalation of dusts may irritate the respiratory system.		
<b>Skin</b>	Skin contact may cause mechanical irritation resulting in redness and itching.		
<b>Eye</b>	Eye contact may cause mechanical irritation. May result in mild abrasion.		
<b>Respiratory Sensitisation</b>	Not expected to be a respiratory sensitiser.		
<b>Skin Sensitisation</b>	Not expected to be a skin sensitiser.		
<b>Germ cell Mutagenicity</b>	Not considered to be a mutagenic hazard.		
<b>Carcinogenicity</b>	Not considered to be a carcinogenic hazard.		
<b>Reproductive Toxicity</b>	Not considered to be toxic to reproduction.		
<b>STOT-single Exposure</b>	Not considered to cause toxicity to a specific target organ.		
<b>STOT-repeated Exposure</b>	Not considered to cause toxicity to a specific target organ through prolonged or repeated exposure.		
<b>Aspiration Hazard</b>	Not expected to be an aspiration hazard.		
<b>Toxicity Data</b>	Ammonium Sulphate (7783-20-2)	LD50 (ingestion) LD50 (intraperitoneal) LDLo (ingestion) TDLo (ingestion)	640 mg/kg (mouse) 610 mg/kg (mouse) 3500 mg/kg (domestic animal) 1500 mg/kg (man – gastrointestinal effects)
	Methyl Hydrogen Polysiloxane (63148- 57-2)	LD50 (ingestion)	>100 g/kg





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## **SAFETY DATA SHEET**

### **SECTION 12 – ECOLOGICAL INFORMATION**

<b>Ecotoxicity</b>	No ecological data are available for this material.
<b>Persistence and degradation</b>	Not available
<b>Mobility in Soil</b>	Not available
<b>Bioaccumulative Potential</b>	Not available
<b>Environmental Protection</b>	Prevent this material entering waterways, drains and sewers.
<b>Other Adverse Effects</b>	Phosphate and ammonium salts are plant and algae nutrients. If excess phosphates or ammonium compounds are released to soil or water, the ecological system may be disturbed causing algal blooms and resultant fish toxicity.

### **SECTION 13 – ECOLOGICAL INFORMATION**

<b>Ecotoxicity</b>	No ecological data are available for this material.
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# bulbeckfire

## SAFETY DATA SHEET

### SECTION 14 – TRANSPORT INFORMATION

**Transport information** Road and Rail Transport (ADG Code).

This material is classified as Dangerous Goods Division 2.2 - Non-flammable Non-toxic Gases according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition) Division 2.2 Dangerous Goods are incompatible in a placard load with any of the following:

Class 1, Explosives

Division 2.1 Flammable Gases when the Division 2,2 gas has a subsidiary risk 5.1 except when all are packed in cylinders or pressure drums not exceeding 500L capacity.

Division 2.3 Toxic Gases when the Division 2,2 gas has a subsidiary risk 5.1 except when all are packed in cylinders or pressure drums not exceeding 500L capacity.

Division 4.2, Spontaneously Combustible Substances

Division 5.2, Organic Peroxides

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**Marine Transport (IMO/IMDG):** Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea. Division: 2.2

EmS: F-C,S-V UN-No: 1044

Special Provisions: 225

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**Proper Shipping Name:** Fire extinguishers with compressed or liquefied gas

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**Air Transport (ICAO/IATA):** Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

Division: 2.2

Packaging Instructions (cargo only): 213

Packaging Instructions (passenger & cargo): Forbidden Special Provisions: A19

UN-No: 1044

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**U.N. Number** 1044

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**IMDG Marine Pollutant** No

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# **bulbeck**fire

## **SAFETY DATA SHEET**

### **SECTION 15 – REGULATORY INFORMATION**

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**Additional Information****PPE Guidelines**

The recommendation for Personal Protective Equipment contained

within this SDS 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 PPE is made.

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**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,
- PPE used, and
- Method of application

Given that it is impractical to prepare a Safety Data Sheet that would encompass all possible scenarios, it is anticipated that users will assess all the risks and apply control measures where appropriate.

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