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Atlantis Fire & Safety Services

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# SAFETY DATA SHEET

## SECTION 1 - IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

### PRODUCT IDENTIFIER:

# BE POWDER EXTINGUISHER

### OTHER MEANS OF IDENTIFICATION:

G2.3BE 2.3KG BE PORTABLE EXTINGUISHER

G4.5BE 4.5KG BE PORTABLE EXTINGUISHER

G9.0BE 9.0KG BE PORTABLE EXTINGUISHER

M30BEM 30KG BE MOBILE EXTINGUISHER

M50BEM 50KG BE MOBILE EXTINGUISHER

M70BEM 70KG BE MOBILE EXTINGUISHER

M90BEM 90KG BE MOBILE EXTINGUISHER

### RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST:

Relevant identified uses: fire extinguishing agent for use on electrical and flammable liquids.

### DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET:

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PREPARED IN ACCORDANCE WITH THE NATIONAL CODE OF PRACTICE FOR THE PREPARATION OF MATERIAL SAFETY DATA SHEETS 2ND EDITION [NOHSC:2011(2003)]

## SECTION 2 - HAZARD(S) IDENTIFICATION

### CLASSIFICATION OF THE SUBSTANCE OR MIXTURE:


Classification according to the the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia

Classified as dangerous - Gases under Pressure - Compressed Gas

Classification according to the the Australian Code for the Transport of Dangerous Goods by Road and Rail (7th Edition)

Classified as Dangerous Goods

### LABEL ELEMENTS:

<b>Hazard pictograms</b>	
<b>Pictogram code</b>	GHS04 Gas Cylinder
<b>Signal word</b>	<b>WARNING</b>
<b>Hazard statements</b>	
<b>Physical Hazards</b>	<b>H280</b> Contains gas under pressure; may explode if heated.
<b>Health Hazards</b>	
<b>Environmental Hazards</b>	
<b>Combinations</b>	
<b>Precautionary statements</b>	
<b>General</b>	
<b>Prevention</b>	
<b>Response</b>	
<b>Storage</b>	<b>P410+P403</b> Protect from sunlight. Store in a well ventilated space.

### OTHER HAZARDS:

No other hazards.

## SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

### MIXTURE INGREDIENTS

Ingredient (Designation)	CAS No.	Percentage of Ingredients
<b>Nitrogen</b>	7727-37-9	Not known, gas
<b>Silica Gel</b>	112926-00-8	0.3%
<b>Sodium Bicarbonate</b>	144-55-8	90%
<b>Calcium Carbonate</b>	1317-65-3	<10%

## SECTION 4: FIRST AID MEASURES

### DESCRIPTION OF FIRST AID MEASURES:

**After inhalation**

Remove from exposure. If irritation persists, seek medical attention.

**After skin contact**

Wash affected area with soap and water. If irritation persists, seek medical attention.

**After eye contact**

Wash with water for a minimum of 15 minutes. If irritation persists, seek medical attention.

**After ingestion**

Dilute by drinking large quantities of water.

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### MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE, DELAYED AND AGGRAVATED

Reactivate airway.

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### INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

See above. If symptoms persist, seek medical attention.

## SECTION 5: FIREFIGHTING MEASURES

### EXTINGUISHING MEDIA

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

### SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

This product is non-combustible. However, under fire conditions this product may emit toxic and/or irritating fumes and gases including carbon dioxide.

### ADVICE FOR FIREFIGHTERS

In case of fire the product may be violently or explosively reactive. If safe to do so, remove containers from path of fire. Keep containers and fire-exposed surfaces cool with water spray. This product should be prevented from entering drains and watercourses.

#### Appropriate personal protective equipment for fire fighters:

Fire fighters should wear Self-Contained Breathing Apparatus (SCBA) and full protective clothing to prevent exposure to vapours, fumes or products of combustion.

#### Hazchem code:

No Hazchem Code issued to these articles. No HIN issued under RID and ADR.

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

### PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:

Wear appropriate personal protective equipment and clothing to minimise exposure. Avoid skin and eye contact.

### ENVIRONMENTAL PRECAUTIONS

Increase ventilation. If possible contain the spill. If contamination of sewers or waterways occurs inform the local water and waste management authorities in accordance with local regulations.

### METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

Sweep or vacuum up contents and place in sealed container for disposal.

## SECTION 7 - HANDLING AND STORAGE

### PRECAUTIONS FOR SAFE HANDLING

#### Advice on safe use of product:

Maintain high standards of personal hygiene i.e. Washing hands prior to eating, drinking, smoking or using toilet facilities.

#### Advice on safe handling:

Avoid inhalation of dust and skin or eye contact. Use only in a well ventilated area. Keep containers sealed when not in use. Prevent the build up of dust in the work atmosphere. Maintain high standards of personal hygiene i.e. Washing hands prior to eating, drinking, smoking or using toilet facilities.

#### Environmental precautions:

Prevent the build up of dusts in the work atmosphere.

### CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

#### Technical measures and storage conditions:

Always store in dry, cool area out of direct sunlight in original container with lid tightly closed.

## SECTION 7 - HANDLING AND STORAGE (CONTINUED)

### Requirements for storage rooms and containers:

Keep containers closed when not in use. Ensure that storage conditions comply with applicable local and national regulations. Do not allow any part of a cylinder to be exposed above 50°C. Storage areas should be kept clean and free from flammable materials. Ensure that containers are properly vented to prevent build up of pressure. Ensure that storage conditions comply with applicable local and national regulations.

### Suitable container/equipment material:

No information available.

### Unsuitable container/equipment material:

No information available.

### Information on combines storage:

No information available.

## SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

### CONTROL PARAMETERS / OCCUPATIONAL EXPOSURE LIMIT VALUES

No exposure standards have been established for this material. However, the available exposure limits for ingredients are listed below:

#### Safe Work, Australia Exposure Standards:

Substance	CAS No.	TWA*	STEL**
Silica Gel	112926-00-8	ppm - 10 mg/m <sup>3</sup>	No value assigned (for inspirable dust containing no asbestos and less than 1% crystalline silica)
Nitrogen***	7727-37-9	No value assigned	No value assigned
Sodium Bicarbonate	144-55-8	No data available	No data available
Calcium Carbonate	1317-65-3	no data available	no data available

\*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 minute period which should not be exceeded at any time during a normal eight-hour workday.

\*\*\* Nitrogen is an asphyxiant gas which when present in an atmosphere in high concentration, leads to reduction of oxygen concentration by displacement or dilution. It is not appropriate to recommend an exposure standard for an asphyxiant, rather it should be required that a sufficient oxygen concentration be maintained.

## EXPOSURE CONTROLS

### Appropriate engineering controls:

Use with good general ventilation. If solids/dusts are produced, local exhaust ventilation should be used. Systems under pressure should be regularly checked for leakages.

### Individual protective measures, e.g. Personal Protective Equipment:

The following recommendations should be considered: Wear chemical goggles, chemical resistant gloves and dust mask.

### Environmental exposure controls

Not known

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

### INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b> - Physical state: - Colour:	Powder Solid White
<b>Odour:</b>	No odour warning properties
<b>Odour threshold:</b>	Odour threshold is subjective and inadequate to warn for overexposure.
<b>pH:</b>	no information available
<b>Melting point (°C):</b>	270
<b>Boiling point (°C):</b>	no information available
<b>Molar mass:</b>	no information available
<b>Critical temperature (°C):</b>	no information available
<b>Flash point (°C):</b>	no information available
<b>Evaporation rate (ether=1):</b>	no information available
<b>Flammability range (vol% in air):</b>	Non flammable.
<b>Vapour pressure (at 20°C):</b>	no information available
<b>Vapour density:</b>	no information available
<b>Relative density, gas (air=1):</b>	no information available
<b>Relative density, liquid (water =1):</b>	no information available
<b>Solubility in water (g/100g):</b>	16.4
<b>Partition coefficient n-octanol/water:</b>	no information available
<b>Viscosity at 20°C (mPa.s):</b>	no information available
<b>Explosive properties:</b>	no information available
<b>Molecular weight:</b>	no information available
<b>Other information:</b>	Specific gravity: ~2.2 (H2O=1)

## SECTION 10 - STABILITY AND REACTIVITY

### REACTIVITY

Reacts with incompatible materials.

### CHEMICAL STABILITY

Stable under normal storage & handling conditions.

### CONDITIONS TO AVOID

Extremes of temperature and direct sunlight.

## SECTION 10 - STABILITY AND REACTIVITY (CONTINUED)

### INCOMPATIBLE MATERIALS

Strong acids, NaK alloy, and NH<sub>4</sub>H<sub>2</sub>PO<sub>4</sub>

### HAZARDOUS DECOMPOSITION PRODUCTS

Under fire conditions this product may emit toxic and/or irritating fumes and gases including carbon dioxide. Polymerization will not occur.

## SECTION 11 - TOXICOLOGICAL INFORMATION

### INFORMATION ON TOXICOLOGICAL EFFECTS

<b>Toxicity Information</b> This chemical formulation has not been tested for health effects.	
<b>Acute toxicity:</b>	This product has not been tested
<b>Skin corrosion/irritation:</b>	This product has not been tested
<b>Serious eye damage/irritation:</b>	This product has not been tested
<b>Respiratory or skin sensitisation:</b>	This product has not been tested
<b>Respiratory or skin sensitisation:</b>	This product has not been tested
<b>Germ cell mutagenicity:</b>	This product has not been tested
<b>Carcinogenicity:</b>	This product has not been tested
<b>Reproductive toxicity:</b>	This product has not been tested
<b>Specific Target Organ Toxicity (STOT) – single exposure:</b>	This product has not been tested
<b>Specific Target Organ Toxicity (STOT) – repeated exposure:</b>	This product has not been tested
<b>Aspiration hazard:</b>	This product has not been tested

### INFORMATION ON POSSIBLE ROUTES OF EXPOSURE

<b>Eye contact:</b>	Mildly irritating for short periods of time.
<b>Skin contact:</b>	May be mildly irritating.
<b>Inhalation:</b>	May irritate the respiratory tract. Transient cough, shortness of breath.
<b>Ingestion:</b>	Not an expected route of entry, however, ingestion may cause irritation.
<b>Acute overexposure:</b>	No information available.
<b>Chronic overexposure:</b>	Chronic fibrosis of the lung.

## SECTION 11 - TOXICOLOGICAL INFORMATION (CONTINUED)

### EARLY ONSET SYMPTOMS RELATING TO EXPOSURE

No information available

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### DELAYED HEALTH EFFECTS FROM EXPOSURE

No information available

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### EXPOSURE LEVELS AND HEALTH EFFECTS

No information available

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### INTERACTIVE EFFECTS

No information available

## SECTION 12 - ECOLOGICAL INFORMATION

### ECOTOXICITY

Not determined.

### PERSISTENCE AND DEGRADABILITY

No information available.

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### BIOACCUMULATIVE POTENTIAL

No information available.

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### MOBILITY IN SOIL

No information available.

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### OTHER ADVERSE EFFECTS

No information available.

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### FURTHER INFORMATION

No information available.



## SECTION 13 - DISPOSABLE CONSIDERATIONS

### DISPOSABLE METHODS

Dispose of waste according to applicable local and national regulations.

### PHYSICAL/CHEMICAL PROPERTIES THAT MAY AFFECT DISPOSAL OPTIONS

Not determined.


### EFFECTS OF SEWAGE DISPOSAL

Not determined.

### SPECIAL PRECAUTIONS FOR INCINERATION OR LANDFILL

No information available.

## SECTION 14 - TRANSPORT INFORMATION

Labelling ADG, IMO/IMDG, ICAO/IATA	 2.2 Non flammable, non toxic gas
<b>Road and Rail Transport (ADG Code)</b>	
<b>Classification:</b>	Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road & Rail (Seventh edition, 7.4, 2015)
<b>UN number</b>	1044
<b>Proper shipping name:</b>	FIRE EXTINGUISHERS with compressed or liquefied gas
<b>Transport hazard class/division:</b>	2.2
<b>Packing group:</b>	N/A
<b>HAZCHEM - Emergency Action Code</b>	No Hazchem Code issued to these articles. No HIN issued under RID and ADR.
<b>Special Provisions:</b>	225
<b>Limited Quantities:</b>	120mL
<b>Packing Instruction:</b>	P003
<b>Special Packing Provisions:</b>	PP91
<b>Placard load Incompatibilities:</b>	<b>Division 1 - Explosives</b> <b>Division 2.1 - Flammable Gases</b> 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. <b>Division 2.3 Toxic Gases</b> 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. <b>Division 4.2 - Spontaneously Combustible Substances</b> <b>Division 5.2 - Organic Peroxides</b>

## SECTION 14 - TRANSPORT INFORMATION (CONTINUED)

Marine transport (IMO/IMDG)	
<b>Classification:</b>	Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.
<b>UN number:</b>	1044
<b>Proper shipping name:</b>	FIRE EXTINGUISHERS with compressed or liquefied gas
<b>Division:</b>	2.2
<b>Environmental hazards for Transport Purposes:</b>	Not a known pollutant according to the International Maritime Dangerous Goods (IMDG) Code. Substance is not classified as having an acute aquatic toxicity hazard.
<b>Emergency Schedule (EmS) - Fire:</b>	F-C
<b>Emergency Schedule (EmS) - Spillage:</b>	S-V
<b>Special provisions:</b>	225
Air transport (ICAO/IATA)	
<b>Classification:</b>	Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.
<b>UN number:</b>	1044
<b>Proper shipping name:</b>	FIRE EXTINGUISHERS with compressed or liquefied gas
<b>Division:</b>	2.2
<b>Packing instruction (Cargo Aircraft only):</b>	213
<b>Packing instruction (Passanger and Cargo Aircraft):</b>	Restricted.
<b>Special Provisions:</b>	A19

### SPECIAL PRECAUTIONS FOR USER

Not available.

## SECTION 15 - REGULATORY INFORMATION

### SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE

Classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia. Not classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

#### AICS (Australia)

All components of this product are listed on the Australian Inventory of Chemical Substances (AICS) or exempted

#### Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

## SECTION 16 - OTHER INFORMATION

### KEY LITERATURE REFERENCES AND SOURCES

Classification in accordance with the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

National Code of Practice for the Preparation of Material Safety Data Sheets 2nd Edition [NOHSC:2011(2003)].

This Safety Data Sheet where necessary has been established in accordance with the applicable European Union legislation and has used calculation methods of regulation (EC) 1272/2008 CLP / (EC) 1999/45 DPD.

Standard for the Uniform Scheduling of Medicines and Poisons. (SUSMP)

Australian Inventory of Chemical Substances (AICS)

Australian Code for the Transport of Dangerous Goods by Road & Rail (2015, 7th Edition, 7.4)

Model Work Health and Safety Regulations, Schedule 10: Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.

International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

Workplace exposure standards for airborne contaminants, Safe work Australia.

International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

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**For contact information please go to page 1 of this SDS.**

### END OF SDS.

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