



Firex Distribution (Australia) Pty Ltd  
ATF Firex Trust  
ABN 75 468 726 200

Firex - Head Office  
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## Material Safety Data Sheet

Product Name: Firex BE Dry Powder Extinguisher  
Date Revised: 02 May 2018

### SECTION 1 - IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name:	Firex BE Dry Powder Extinguisher
Other means of identification:	FXR25 Firex BE Dry Powder Extinguisher - 2.5kg FXR45 Firex BE Dry Powder Extinguisher - 4.5kg FXR90 Firex BE Dry Powder Extinguisher - 9.0kg
Recommended use of the chemical and restrictions on use:	Fire extinguishing agent.
Supplier Name:	Firex Distribution (Australia) Pty Ltd
Address:	Unit 5, 11 Packard Ave Castle Hill NSW 2154 Australia
Telephone Number:	+61 2 9680 8811 (9am – 5pm AET, Mon-Fri)
Emergency Number:	Emergency 000 Firex +61 415 528 974
Website:	www.firex.com.au
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### SECTION 2 - HAZARDS IDENTIFICATION

<b>Classification of the hazardous chemical</b>	
Classification according to the WHS Regulations Australia and the ADG Code.	
Classified as Dangerous – Gases under Pressure – Compressed Gas	
<b>Label Elements</b>	
Hazard Pictograms:	
Pictogram Code:	GHS04 Gas Cylinder
Signal Word:	WARNING
<b>Hazard Statements</b>	
H280 Contains gas under pressure; may explode in heated	
<b>Precautionary Statements</b>	
Prevention:	
Response:	
Storage:	P410 + P403 Protect from sunlight. Store in a well-ventilated place.



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### SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Chemical identity of ingredients:	Sodium Bicarbonate NaHCO <sub>3</sub>
Proportion of ingredients:	>82%
CAS No.:	144-55-8
Chemical identity of ingredients:	Calcium Carbonate CCaO <sub>3</sub>
Proportion of ingredients:	<10%
CAS No.:	1317-65-3
Chemical identity of ingredients:	Nitrogen UN1066
Proportion of ingredients:	Unknown (gas varies)
CAS No.:	7727-37-9

### SECTION 4 – FIRST AID MEASURES

Eye contact (symptoms, special & medical treatment):	Mildly irritating following acute exposure. In case of contact with eyes, rinse immediately with water for a minimum of 15 minutes. If irritation persists seek medical advice.
Skin contact (symptoms, special & medical treatment):	Mildly irritating following acute exposure. In case of contact with skin, rinse immediately with plenty of soapy water, remove exposed clothing (if required). If irritation persists seek medical attention.
Inhalation (symptoms, special & medical treatment):	Transient cough, shortness of breath following acute exposure. Treat as a mineral dust irritant to the respiratory tract. In case of inhalation to the respiratory tract, immediately extricate from exposed area. If irritation persists seek medical attention. Chronic overexposure can lead to Chronic fibrosis of the lung, pneumoconiosis.
Ingestion (symptoms, special & medical treatment):	Not an expected route of entry. In case of ingestion, immediately consume large amounts of water and induce vomiting. If irritation persists seek medical attention.

#### Indication of any immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically.

### SECTION 5 - FIRE FIGHTING MEASURES

Suitable extinguishing equipment	This preparation is an extinguishing media.
Specific hazards	None.



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<b>arising from the chemical:</b>	
<b>Special protective equipment and precautions for fire fighters:</b>	Wear breathing apparatus and protective gloves. Prevent spillage from entering drains or water courses.
<b>Hazchem Code:</b>	Not Applicable.

### SECTION 6 - ACCIDENTAL RELEASE MEASURES

<b>Personal precautions, protective equipment and emergency procedures:</b>	Prevent skin and eye contact, as well as inhalation and ingestion. Wear appropriate PPE and clothing to minimise the risk of exposure.
<b>Environmental precautions:</b>	If contamination occurs in sewers or waterways, inform the local water authority in accordance with regulations of that jurisdiction.
<b>Methods and materials for containment and cleaning up:</b>	Sweep up / vacuum spill and place in closed container for disposal. Dispose of in compliance with national, regional and local provisions that may be in force.

### SECTION 7 - HANDLING AND STORAGE

#### Precautions for Safe Handling

<b>Safe handling:</b>	<ul style="list-style-type: none"> <li>• Limit all unnecessary personal contact</li> <li>• Wear protective clothing when risk of exposure occurs</li> <li>• Use in a well-ventilated area</li> <li>• Do not eat, drink or smoke when handling</li> <li>• Always wash hands with soap and water after handling</li> <li>• Avoid physical damage to containers</li> <li>• Use good occupational work practice</li> </ul>
<b>Other information:</b>	<ul style="list-style-type: none"> <li>• Observe manufacturer's storage and handling recommendations contained within this MSDS</li> <li>• Store away from sources of heat or ignition / naked lights</li> <li>• Store in a cool, dry, well-ventilated area</li> <li>• Store in original container or fire extinguisher</li> <li>• Keep containers securely sealed when not in use</li> </ul>

#### Conditions for safe storage, including any incompatibilities:

<b>Storage requirements:</b>	<ul style="list-style-type: none"> <li>• Observe manufacturer's storage and handling recommendations contained within this MSDS</li> <li>• Store away from sources of heat or ignition / naked lights</li> <li>• Store in a cool, dry, well-ventilated area</li> <li>• Store in original container or fire extinguisher</li> <li>• Keep containers securely sealed when not in use</li> </ul>
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<b>Unsuitable storage containers:</b>	Not known.
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**SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Occupational Exposure Limits**

Occupational exposure limits according to the *Workplace Exposure Standards for Airborne Contaminants*, Safe Work Australia.

Chemical Name	CAS No.	TWA <sup>1</sup>	STEL <sup>2</sup>
Sodium Bicarbonate	144-55-8	Not classified	
Calcium Carbonate	1317-65-3	Not classified	
Nitrogen	7727-37-9	Not classified	

<sup>1</sup> TWA (8-hour Time Weighted Average)- means the maximum average airborne concentration of a substance when calculated over an eight-hour working day, for a five-day working week.  
<sup>2</sup> STEL (Short Term Exposure Limit)- means the time-weighted average maximum airborne concentration of a substance calculated over a 15 minute period.

<b>Engineering controls:</b>	No Special controls are needed.
<b>Personal protective equipment:</b>	Eye protection - safety goggles. Skin protection - chemical resistance gloves. Respiratory & Ingestion protection - dust mask

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance (colour, physical form, shape):</b>	White, solid, powder
<b>Odour:</b>	None
<b>Odour threshold:</b>	Not Applicable
<b>pH:</b>	8.5
<b>Vapour pressure:</b>	Not Applicable.
<b>Vapour density:</b>	Not Applicable.
<b>Boiling point/range:</b>	Not Applicable.
<b>Freezing/melting point (specify which):</b>	Not Applicable.
<b>Evaporation rate:</b>	Data not available.
<b>Flammability:</b>	Not Applicable.
<b>Upper/Lower Flammability or Explosive limits:</b>	Not Applicable.
<b>Solubility (specify solvent, e.g. water):</b>	Slightly water soluble
<b>Relative density:</b>	Settled apparent density 1000~1200Kg/m <sup>3</sup>
<b>Partition coefficient</b>	Not Applicable.



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<b>(n-octanol/water):</b>	
<b>Flash point and method of detecting flash point:</b>	Not Applicable.
<b>Upper and lower flammable (explosive) limits in air:</b>	Not flammable.
<b>Ignition temperature:</b>	Not Applicable.
<b>Decomposition temperature:</b>	Data not available
<b>Viscosity:</b>	Not applicable.

#### SECTION 10 - STABILITY AND REACTIVITY

<b>Reactivity:</b>	Refer to Section 7.
<b>Chemical stability:</b>	Stable when stored, handled and operated in accordance with this MSDS.
<b>Possibility of Hazardous reactions:</b>	See below.
<b>Conditions to avoid:</b>	Refer to Section 7.
<b>Incompatible materials:</b>	Refer to Section 7.
<b>Hazardous decomposition products:</b>	Carbon Dioxide and Carbon Monoxide can be evolved at very high temperatures

#### SECTION 11 - TOXICOLOGICAL INFORMATION

<b>Information on Toxicological effects</b>	
This product has not been tested for toxicological effects.	
<b>Eye contact:</b>	Mildly irritating following acute exposure.
<b>Acute toxicity:</b>	Data not available.
<b>Skin corrosion / irritation:</b>	Mildly irritating following acute exposure.
<b>Serious eye damage/irritation:</b>	Mildly irritating following acute exposure.
<b>Respiratory or skin sensitisation:</b>	Transient cough, shortness of breath following acute exposure.
<b>Germ cell mutagenicity:</b>	Data not available.
<b>Carcinogenicity:</b>	Data not available.
<b>Reproductive toxicity:</b>	Data not available.
<b>Specific Target</b>	Data not available.



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<b>Organ Toxicity (STOT) – single exposure:</b>	
<b>Specific Target Organ Toxicity (STOT) – repeated exposure:</b>	Data not available.
<b>Aspiration hazard:</b>	Data not available.
<b>Information on possible routes of exposure</b>	
<b>Eye contact:</b>	Mildly irritating following acute exposure.
<b>Skin contact:</b>	Mildly irritating following acute exposure.
<b>Inhalation:</b>	Transient cough, shortness of breath following acute exposure.
<b>Ingestion:</b>	Not an expected route of entry.
<b>Early onset symptoms related to exposure</b>	
Data not available.	
<b>Delayed health effects from exposure</b>	
Data not available.	
<b>Exposure levels and health effects</b>	
Data not available.	
<b>Interactive effects</b>	
Data not available.	
<b>Mixture of chemicals</b>	
Data not available.	
<b>Other information</b>	
No other information available.	

**SECTION 12 - ECOLOGICAL INFORMATION**

**Ecotoxicity:**

Classification according to *Ecotox database – Aquatic Toxicity Data, USA EPA.*

Substance	Endpoint	Test Duration (hr)	Species	Value
Sodium Bicarbonate	LC50	96	Fish	833.28mg/L
	EC50	96	Algae or other aquatic plants	650mg/L
	NOEC	504	Crustacea	576/L
Calcium carbonate	Not classified			
Nitrogen	Not classified			


<b>Persistence and degradability:</b>	Data not available.
<b>Mobility in soil:</b>	Data not available.
<b>Bioaccumulative potential:</b>	Data not available.
<b>Other adverse</b>	Data not available.

effects:

## SECTION 13 - DISPOSAL CONSIDERATIONS

Disposal methods and containers:	Dispose of in compliance with national, regional and local provisions that may be in force.
Physical / Chemical Properties that may affect disposal options:	Not known
Effects of Sewerage Disposal:	Not known
Special precautions for landfill or incineration:	None.

## SECTION 14 - TRANSPORT INFORMATION

Labels Required	 2.2 non flammable, non toxic gas
<b>Land Transport (ADG)</b>	
Classification as Dangerous Goods according to the <i>Australian Code for the Transport of Dangerous Goods by Road &amp; Rail (Ed 7.3, August 2014)</i> , National Transport Commission.	
UN Number:	1044
Proper Shipping Name:	FIRE EXTINGUISHERS with compressed gas or liquefied gas
Transport hazard class:	Class 2.2 Subrisk Not Applicable
Packing Group:	Not Applicable
Environmental hazards for Transport Purposes:	Not Applicable
Special precautions for user:	Special Provisions: 225
Hazchem Code:	Not Applicable
<b>Air Transport (ICAO, IATA - DGR)</b>	
Classification as Dangerous Goods according to the <i>Dangerous Goods Regulations, International Air Transport Association (IATA)</i> .	
UN Number:	1044
Proper Shipping Name:	FIRE EXTINGUISHERS with compressed gas or liquefied gas
Transport hazard class:	Class 2.2 Subrisk Not Applicable



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<b>Packing Group:</b>	Not Applicable
<b>Environmental hazards for Transport Purposes:</b>	Not Applicable
<b>Special precautions for user:</b>	Special Provisions: A19 Cargo Only Packing Instructions: 213 Passenger and Cargo Packing Instructions: 213
<b>Hazchem Code:</b>	Not Applicable
<b>Sea Transport (IMO - IMDG)</b>	
Classification as Dangerous Goods according to the <i>International Maritime Dangerous Goods Code (IMDG)</i> , <i>International Maritime Organisation (IMO)</i> .	
<b>UN Number:</b>	1044
<b>Proper Shipping Name:</b>	FIRE EXTINGUISHERS with compressed gas or liquefied gas
<b>Transport hazard class:</b>	Class 2.2 Subrisk Not Applicable
<b>Packing Group:</b>	Not Applicable
<b>Environmental hazards for Transport Purposes:</b>	Not Applicable
<b>Special precautions for user:</b>	EMS Number: F-C, S-V Special Provisions: 225
<b>Hazchem Code:</b>	Not Applicable

#### SECTION 15 - REGULATORY INFORMATION

##### Safety, health and environmental regulations / legislation specific for the substance or mixture

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

#### SECTION 16 - OTHER INFORMATION

<b>Revision, Date of preparation of this MSDS:</b>	Rev C, 02 May 2018
<b>Disclaimer</b>	The above information is believed to be correct, but does not purport to be all inclusive and shall be used only as a guide. Firex Distribution (Australia) Pty Ltd shall not be held liable for any damage or loss resulting from handling or from contact with the above product.

End MSDS