



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 ABE Dry Powder Extinguisher;
Yuyao ABE Dry Powder Extinguisher
Date Revised: 02 May 2018

SECTION 1 - IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Identifier:	Firex ABE Dry Powder Extinguisher; Yuyao ABE Dry Powder Extinguisher
Other means of Identification:	FXM10 Firex ABE Dry Powder Extinguisher - 1.0kg FXM15 Firex ABE Dry Powder Extinguisher - 1.5kg FXM20 Firex ABE Dry Powder Extinguisher - 2.0kg FXM25 Firex ABE Dry Powder Extinguisher - 2.5kg FXM45 Firex ABE Dry Powder Extinguisher - 4.5kg FXM90 Firex ABE Dry Powder Extinguisher - 9.0kg FXPMOB25 Firex ABE Dry Powder Extinguisher - 25kg FXPMOB50 Firex ABE Dry Powder Extinguisher - 50kg FXPMOB75 Firex ABE Dry Powder Extinguisher - 75kg FXPMOB100 Firex ABE Dry Powder Extinguisher - 100kg YABE10 Yuyao ABE Dry Powder Extinguisher - 1.0kg YABE15 Yuyao ABE Dry Powder Extinguisher - 1.5kg YABE20 Yuyao ABE Dry Powder Extinguisher - 2.0kg YABE25 Yuyao ABE Dry Powder Extinguisher - 2.5kg YABE45 Yuyao ABE Dry Powder Extinguisher - 4.5kg YABE90 Yuyao ABE 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

Classification of the hazardous chemical

Classification according to the WHS Regulations Australia and the ADG Code.

Classified as Dangerous – Gases under Pressure – Compressed Gas

Label Elements

Hazard Pictograms:	
Pictogram Code:	GHS04 Gas Cylinder
Signal Word:	WARNING
Hazard Statements	
H280 Contains gas under pressure; may explode in heated	
Precautionary Statements	
Prevention:	
Response:	
Storage:	P410 + P403 Protect from sunlight. Store in a well-ventilated place.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Chemical identity of ingredients:	Monobasic Ammonium Phosphate $\text{NH}_4\text{H}_2\text{PO}_4$
Proportion of ingredients:	90+/-3%
CAS No.:	7722-76-1
Chemical identity of ingredients:	Magnesium Aluminium Silicate (Attapulgite Clay or Fuller's Earth) $\text{Mg}_x\text{Al}_y(\text{SiO}_4)_z$
Proportion of ingredients:	6-8%
CAS No.:	8031-18-3
Chemical identity of ingredients:	Silica white SiO_2
Proportion of ingredients:	$\leq 3\%$
CAS No.:	7631-86-9
Chemical identity of ingredients:	Methyl Hydrogen Polysiloxane (Mixture / preparation)
Proportion of ingredients:	$\leq 1\%$
CAS No.:	63148-57-2
Chemical identity of ingredients:	Nitrogen
Proportion of ingredients:	Unknown (gas varies)
CAS No.:	7727-37-9

SECTION 4 – FIRST AID MEASURES

Eye contact (symptoms, special)	Mildly irritating following acute exposure. In case of contact with eyes, rinse immediately with water for a minimum
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& medical treatment):	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. Use extinguishing media suitable for surrounding area.
Specific hazards arising from the chemical:	Ammonia and / or phosphorus oxides can be evolved at very high temperatures.
Special protective equipment and precautions for fire fighters:	Wear breathing apparatus and protective gloves. Prevent, by any means available, spillage from entering drains or water courses.
Hazchem Code:	Not Applicable.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:	Prevent skin and eye contact, as well as inhalation and ingestion. Wear appropriate PPE and clothing to minimise the risk of exposure.
Environmental precautions:	If contamination occurs in sewers or waterways, inform the local water authority in accordance with regulations of that jurisdiction.
Methods and materials for containment and	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.



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cleaning up:

SECTION 7 - HANDLING AND STORAGE

Precautions for Safe Handling

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

Conditions for safe storage, including any incompatibilities:

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

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 ¹	STEL ²
Monobasic Ammonium Phosphate	7722-76-1	Not classified	
Magnesium Aluminium Silicate	8031-18-3	Not classified	
Fumed silica (respirable dust)	7631-86-9	ppm: - mg/m ³ : 2	ppm: - mg/m ³ : -
Methyl Hydrogen Polysiloxane	63148-57-2	Not classified	
Nitrogen	7727-37-9	Not classified	

¹ TWA (8-hour Time Weighted Average)- means the maximum average airborne concentration of a



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substance when calculated over an eight-hour working day, for a five-day working week.
² STEL (Short Term Exposure Limit)- means the time-weighted average maximum airborne concentration of a substance calculated over a 15 minute period.

Engineering controls:	Use in a well-ventilated area
Personal protective equipment:	Eye protection - safety goggles. Skin protection - chemical resistance gloves. Respiratory & Ingestion protection - dust mask

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance (colour, physical form, shape):	Light grey, solid, powder
Odour:	None
Odour threshold:	Not Applicable
pH:	Data not available.
Vapour pressure:	Not Applicable.
Vapour density:	Not Applicable.
Boiling point/range:	Not Applicable.
Freezing/melting point (specify which):	Not Applicable.
Evaporation rate:	Data not available.
Flammability:	Not Applicable.
Upper/Lower Flammability or Explosive limits:	Not Applicable.
Solubility (specify solvent, e.g. water):	Slightly Water Soluble, Not Fat soluble.
Relative density:	Not Applicable.
Partition coefficient (n-octanol/water):	Not Applicable.
Flash point and method of detecting flash point:	Not Applicable.
Ignition temperature:	Not Applicable.
Decomposition temperature:	Not Applicable.
Viscosity:	Not applicable.

SECTION 10 - STABILITY AND REACTIVITY

Reactivity:	Refer to Section 7.
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Chemical stability:	Stable when stored, handled and operated in accordance with this MSDS.
Possibility of Hazardous reactions:	See below.
Conditions to avoid:	Refer to Section 7.
Incompatible materials:	Strong alkalis, magnesium, oxidizers that can release chlorine or produce Nce3 (explosive) per NFPA 10 Annex A-2-1
Hazardous decomposition products:	Ammonia and / or phosphorous oxides can be evolved at very high temperatures

SECTION 11 - TOXICOLOGICAL INFORMATION

Information on Toxicological effects

This product has not been tested for toxicological effects.

Acute toxicity:	Data not available.
Skin corrosion / irritation:	Mildly irritating following acute exposure.
Serious eye damage/irritation:	Mildly irritating following acute exposure.
Respiratory or skin sensitisation:	Transient cough, shortness of breath following acute exposure.
Germ cell mutagenicity:	Data not available.
Carcinogenicity:	Data not available.
Reproductive toxicity:	Data not available.
Specific Target Organ Toxicity (STOT) – single exposure:	Data not available.
Specific Target Organ Toxicity (STOT) – repeated exposure:	Data not available.
Aspiration hazard:	Data not available.

Information on possible routes of exposure

Eye contact:	Mildly irritating following acute exposure.
Skin contact:	Mildly irritating following acute exposure.
Inhalation:	Transient cough, shortness of breath following acute exposure.
Ingestion:	Not an expected route of entry.

Early onset symptoms related to exposure

Data not available.

Delayed health effects from exposure

Data not available.



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Exposure levels and health effects

Data not available.

Interactive effects

Data not available.

Mixture of chemicals

Data not available.

Other information

No other information available.

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity:

Classification according to Registered Substances – Ecotoxicological Information – Aquatic Toxicity, ECHA.

Substance	Endpoint	Test Duration (hr)	Species	Value
Monobasic Ammonium Phosphate	LC50	96	Fish	>85.9mg/L
	EC50	72	Algae or other aquatic plants	>97.1mg/L
	NOEC	72	Algae or other aquatic plants	3.57/L
Magnesium Aluminium Silicate	Not classified			
Fumed silica (respirable dust)	Not classified			
Methyl Hydrogen Polysiloxane	Not classified			
Nitrogen	Not classified			

Persistence and degradability: Data not available.

Mobility in soil: Data not available.

Bioaccumulative potential: Data not available.

Other adverse effects: Data not available.

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 Not known

Disposal:	
Special precautions for landfill or incineration:	None.

SECTION 14 - TRANSPORT INFORMATION

Labels Required	 2.2 Non flammable, non toxic gas
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Land Transport (ADG)

Classification as Dangerous Goods according to the *Australian Code for the Transport of Dangerous Goods by Road & Rail (Ed 7.3, August 2014), 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

Air Transport (ICAO, IATA - DGR)

Classification as Dangerous Goods according to the *Dangerous Goods Regulations, International Air Transport Association (IATA).*

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: A19 Cargo Only Packing Instructions: 213 Passenger and Cargo Packing Instructions: 213
Hazchem Code:	Not Applicable

Sea Transport (IMO - IMDG)

Classification as Dangerous Goods according to the *International Maritime Dangerous Goods*



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<i>Code (IMDG), International Maritime Organisation (IMO).</i>	
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:	EMS Number: F-C, S-V Special Provisions: 225
Hazchem Code:	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

Revision, Date of preparation of this MSDS:	Rev D, 02 May 2018
Disclaimer	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