

Material Safety Data Sheet

Product Name: Firex Air Foam Fire Extinguisher
Yuyao Air Foam Fire Extinguisher
Date Revised: 26 Sept 2018

SECTION 1 - IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name:	Firex Air Foam Fire Extinguisher; Yuyao Air Foam Fire Extinguisher
Other Names:	FXAF Firex Air Foam Fire Extinguisher – 9.0L FXAFMOB25 Firex Air Foam Mobile Extinguisher – 25L FXAFMOB50 Firex Air Foam Mobile Extinguisher – 50L FXAFMOB75 Firex Air Foam Mobile Extinguisher – 75L FXAFMOB100 Firex Air Foam Mobile Extinguisher – 100L YAF Yuyao Air Foam Fire Extinguisher – 9.0L
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
Email:	info@firex.com.au

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:	Wear eye/face protection
Response:	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.
Storage:	P410 + P403 Protect from sunlight. Store in a well-ventilated place.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

General Information

This fire extinguisher uses Angus Fire UK - Tridol S6. Tridol S6 is a mixture containing:

Chemical identity of ingredients:	CAS No.	Proportion of ingredients:
2-(2-butoxyethoxy)-ethanol	112-34-5	10-20%
Cocoamido propyl dimethylamine oxide	68155-09-9	<3%
Water	7732-18-5	Balance

Tridol S 6 is intended for use at 6% (6 parts concentrate to 94 parts water).

Chemical identity of ingredients:	Tridol S6
Proportion of ingredients:	<6%
Chemical identity of ingredients:	Water H ₂ O
Proportion of ingredients:	<94%
CAS No.:	7732-18-5
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 & medical treatment):	Remove any contact lenses and open eyes wide apart. Get medical attention if irritation develops and persists.
Skin contact (symptoms, special	Wash the skin immediately with soap and water. Get medical attention if irritation develops and persists.

& medical treatment):	
Inhalation (symptoms, special & medical treatment):	Move injured person into fresh air and keep person calm under observation. Get medical attention, if needed.
Ingestion (symptoms, special & medical treatment):	Immediately rinse mouth and drink plenty of water. Keep person under observation. If person becomes uncomfortable take to hospital along with these instructions. Only induce vomiting at the instruction of medical personnel.
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 arising from the chemical:	Not a fire hazard
Special protective precautions and equipment 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:	Do not allow to enter surface water or drains. Cover drains.
Methods and materials for containment and clean up:	Wear appropriate protective equipment to collect spillage with an absorbent material. Flush area with water until foaming ceases, using caution as area may be slippery. Prevent discharge of concentrate into waterways. Disposal must be in accordance with federal, state or provincial, and local regulations. If contamination occurs in sewers or waterways, inform the local water authority in accordance with regulations of that jurisdiction.

SECTION 7 - HANDLING AND STORAGE

Precautions for Safe Handling

Safe handling:	<ul style="list-style-type: none"> Avoid contact with skin and eyes. Wear appropriate PPE. Always wash hands with soap and water after handling Observe good industrial hygiene practices 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 Store at -4°C - 49°C. As with all aqueous solutions, TRIDOL S6 should not be put in contact with any materials which react violently with water.
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Unsuitable storage containers:	Not known.
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SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

Occupational exposure limits according to *EH40 Workplace Exposure Limits (WELs), UK*.

Chemical Name	CAS No.	TWA ¹	STEL ²
2-(2-butoxyethoxy)-ethanol	112-34-5)	ppm: 15 mg/m ³ : 67,5 ppm: 10	ppm: - mg/m ³ : 101,2
Nitrogen	7727-37-9	Not classified	

¹ 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.

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:	Ensure adequate ventilation, especially in confined areas. Observe occupational exposure limits and minimise the risk of exposure.
Personal protective	Eye protection - safety goggles with side shields.

equipment:	Skin protection - chemical resistance gloves. Respiratory & Ingestion protection - Not normally required under normal conditions of use. If vapours reach irritating levels, wear a NIOSH-approved respirator equipped with organic vapour cartridges.
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SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance (colour, physical form, shape):	Clear pale yellow, liquid
Odour:	Organic
Organic threshold	Not available
pH:	6,5 – 8 @ 20°C
Vapour pressure:	Not applicable
Vapour density:	Not applicable
Boiling point/range:	100 °C (212 °F) at 760 mmHg
Freezing/melting point (specify which):	-2 °C (28,4 °F)
Evaporation rate:	Not applicable
Flammability:	Not available
Upper/Lower Flammability or Explosive limits:	Not applicable
Solubility (specify solvent, e.g. water):	Miscible in water.
Relative density:	1,01
Partition coefficient (n-octanol/water):	Data not available
Flash point and method of detecting flash point:	> 98 °C (> 208,4 °F)
Ignition temperature:	Not applicable
Decomposition temperature:	Data not available
Viscosity:	2 cSt

SECTION 10 - STABILITY AND REACTIVITY

Reactivity:	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability:	Stable at normal conditions.
Possibility of Hazardous	Hazardous polymerisation does not occur.

reactions:	
Conditions to avoid:	Contact with incompatible materials. Excessive heat. Freezing (Product properties are unaffected).
Incompatible materials:	Alkali metals. Strong oxidising agents. Water reactive materials.
Hazardous decomposition products:	Carbon oxides. Sulphur oxides. Hydrogen fluoride. Nitrogen oxides (NOx). Magnesium oxides. Sodium oxides.

SECTION 11 - TOXICOLOGICAL INFORMATION

Information on Toxicological effects

This product has not been tested for toxicological effects.

Acute toxicity:	Causes serious eye irritation. May cause skin irritation. May cause mild central nervous system effects.
Skin corrosion / irritation:	May cause skin irritation.
Serious eye damage/irritation:	Causes serious eye irritation.
Respiratory or skin sensitisation:	Data not available
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:	Causes serious eye irritation.
Skin contact:	May cause skin irritation. Prolonged or repeated skin contact may cause drying, cracking, or irritation.
Inhalation:	May cause mild central nervous system effects.
Ingestion:	May cause dizziness, incoordination, headache, nausea, and vomiting.

Early onset symptoms related to exposure

Data not available.

Delayed health effects from exposure

Data not available.

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
Tridol S6 (Mixture)	LC50	24	Fish	1300 ppm
	LC50	3	Fish	1800 ppm
	LC50	48	Fish	1300 ppm
	LC50	6	Fish	1600 ppm
	LC50	72	Fish	1300 ppm
	LC50	96	Fish	1300 ppm
Nitrogen	Not classified			

Persistence and degradability: The product is biodegradable. COD: 0,39 gg-1 BOD: 69% / 7 days. BOD: 86 - 94% / 21 days. BOD: 87-93% / 28 days.

Mobility in soil: The product is water soluble and may spread in water systems.

Bioaccumulative potential: The product is not expected to bioaccumulate.

Other adverse effects: The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

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 Not known

for landfill or
incineration:

SECTION 14 - TRANSPORT INFORMATION

Labels Required



2.2 Non flammable, non toxic gas

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: Restricted

Hazchem Code: Not Applicable

Sea Transport (IMO - IMDG)

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

Code (IMDG), International Maritime Organisation (IMO).

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

Date of preparation or last revision of the MSDS:	Rev D, 26 Sept 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