

Material Safety Data Sheet

Eversafe / FireSafe Stored Pressure AFFF / C6 Foam Fire Extinguisher

Issue: July 2021

Supersedes Issue: November 2015

Section 1: IDENTIFICATION OF MATERIAL AND SUPPLIER

Product Name: Eversafe / FireSafe Stored Pressure Foam Fire Extinguisher
 Other Names: AFFF Fire Extinguisher
 Recommended Use: Extinguishing of Fires (Classes A and B)

Supplier Name: Eversafe Extinguisher Australia Pty Ltd
 Address: 465 Lytton Road, Morningside Qld. 4170
 Email: sales@eversafe.net.au
 Contact 24 Hr: +61 7 3399 8988

Section 2: HAZARDS IDENTIFICATION

- a. This product is not hazardous if used for the reason it has been developed.
- b. Refer to Section 14 – Transport Information.

Section 3: COMPOSITION / INFORMATION ON INGREDIENT

FILMFOAM 916K / C6 Concentrate:

An aqueous concentrated solution of fluorocarbon – hydrocarbon surfactants, foam stabilizers and preservatives (glycols)

Component name	Synonyms	% composition	Health Class	CAS No
Diethylene glycol				
Monobutyl ether	2-(2- Butoxyethoxy) ethanol	10-20	Xi, R36	112-34-5
Hydrocarbon surfactants		<5	Xi, R38,41,50	
Fluorosurfactants		<5	Xi, R36, 37, 38	
Magnesium Sulphate		<5		10034-99-8
Water		Balance		7732-18-5

Note: Fire Extinguishers contain a solution of Concentrate (6.0%) as above and Water (94%).

Section 4: FIRST AID MEASURES

Note: Fire Extinguishers contain a solution of Concentrate (6.0%) as above and Water (94%).

4.1. Description of first aid measures

- First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
- First-aid measures after inhalation : Allow affected person to breathe fresh air. Allow the victim to rest.
- First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
- First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.
- First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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Section 4: FIRST AID MEASURES contd.

4.2. Most important symptoms and effects, both acute and delayed

No additional information available

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

This product is not hazardous if used for the reason it has been developed.

IN ALL CASES, IF SYMPTOMS CONTINUE SEEK MEDICAL ADVICE AND TREATMENT.

Section 5: FIRE FIGHTING MEASURES

It is an extinguishing agent.

No special measures required.

Hazards from combustion products:

Under fire conditions this product may emit toxic and / or irritation fumes including oxides of metals and sulphur, hydrogen fluoride, organic pyrolysis products, carbon monoxide and carbon dioxide.

Special protective precautions and equipment for fire fighters:

None.

Hazchem Code:

Not Applicable.

Section 6: ACCIDENTAL RELEASE MEASURES

NOTE: Fire Extinguishers contain a solution of Concentrate (6.0%) as above and Water (94%).

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel:

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders:

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions:

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up:

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

6.4. Reference to other sections

Sect. 8. Exposure controls/personal protection. Sect.13. Disposal considerations.

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Section 7: HANDLING AND STORAGE

In Concentrate Form:

Note: Fire Extinguishers contain a solution of Concentrate (6.0%) as above and Water (94%).

Handling Precautions:	Wear appropriate PPE including face mask and gloves.
Storage:	Dry, cool, absence of vibration. Avoid production of dust. Ensure containers / packaging is kept sealed.
Hygiene Measures:	Wash hands and other exposed areas with mild soap and water before eating, drinking and when leaving work.
Storage precautions:	Store at -4°C - 49°C. As with all aqueous solutions, AFFF Foam Solution should not be put in contact with any materials which react violently with water.

Section 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

In Concentrate Form:

Note: Fire Extinguishers contain a solution of Concentrate (6.0%) as above and Water (94%).

Appropriate engineering controls:

Ensure adequate ventilation. Follow the exposure limits given on this material safety data sheet.

Personal protective equipment:

Wear recommended personal protective equipment.

Hand protection:

Wear protective gloves (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): nitrile rubber (NBR) - 0.2 mm coating thickness.

Eye protection:

Sealed safety goggles

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment (recommended filter type A2/P2)

Thermal hazard protection:

Wear thermal protective clothing, when necessary.

Environmental exposure controls:

Contain spills. Prevent releases. Observe national regulations on emissions. Ensure all national/local regulations are observed.

Other information:

Do not eat, drink or smoke when using this product.

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Section 9: PHYSICAL AND CHEMICAL PROPERTIES

In Concentrate Form:

Note: Fire Extinguishers contain a solution of Concentrate (6.0%) as above and Water (94%).

Appearance:	Amber Liquid	pH at 20°C	6.6 - 7.6
Odour:	Organic	Specific Gravity	1.01
		Solubility	Miscible with water in all proportions
		Flammability	Non flammable
		Flash point	> 100°C
		Boiling point	100°C at 760mm Hg
		Freeze point	-1°C
		Viscosity @ 20°C	2cs

Section 10: STABILITY AND REACTIVITY

In Concentrate Form:

Note: Fire Extinguishers contain a solution of Concentrate (6.0%) as above and Water (94%).

If stored in original, unopened containers at ambient temperatures away from direct sunlight. Shelf life is normally over ten (10) years.

Do not expose containers to heat or flame, since the containers are made from high density polyethylene and will burn.

Thermal decomposition of containers and/or products may generate acrid smoke and fumes and traces of Na₂O, Cl⁻, SO_x, NO_x, and HF.

Section 11: TOXICOLOGICAL INFORMATION

In Concentrate Form:

Note: Fire Extinguishers contain a solution of Concentrate (6.0%) as above and Water (94%).

Eye contact:	May irritant eyes.
Skin Contact:	May irritant eyes.
Inhalation:	Prolonged extensive or repeated inhalation may be harmful.
Ingestion:	May cause vomiting, nausea and diarrhea.

2-(2-butoxyethoxy)ethanol (112-34-5)

LD50 oral	2410 - 5530 mg/kg bodyweight (Equivalent or similar to OECD 401, Mouse, Male, Experimental value, Oral)
LD50 dermal rabbit	2764 mg/kg bodyweight (Equivalent or similar to OECD 402, Rabbit, Male, Experimental value, Dermal)

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Section 12: ECOLOGICAL INFORMATION

In Concentrate Form:

Note: Fire Extinguishers contain a solution of Concentrate (6.0%) as above and Water (94%).

12.1. Toxicity

2-(2-butoxyethoxy)ethanol (112-34-5)	
LC50 fish 1	1300 mg/l (Equivalent or similar to OECD 203, 96 h, Lepomis macrochirus, Static system, Fresh water, Experimental value, Nominal concentration)
EC50 Daphnia 1	> 100 mg/l (EU Method C.2, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)
ErC50 (algae)	1101 mg/l (Equivalent or similar to OECD 201, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Nominal concentration)

12.2. Persistence and degradability

2-(2-butoxyethoxy)ethanol (112-34-5)	
Persistence and degradability	Readily biodegradable in water.

12.3. Bioaccumulative potential

Filmfoam ^{C6} 916	
Bioaccumulative potential	The product is not expected to bioaccumulate.
2-(2-butoxyethoxy)ethanol (112-34-5)	
Log Pow	1 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 20 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

12.4. Mobility in soil

2-(2-butoxyethoxy)ethanol (112-34-5)	
Surface tension	27 mN/m (25 °C, 0.00212 mol/g)
Ecology - soil	Low potential for adsorption in soil.

12.5. Results of PBT and vPvB assessment

Filmfoam ^{C6} 916	
PBT: not relevant – no registration required	
vPvB: not relevant – no registration required	
Component	
2-(2-butoxyethoxy)ethanol (112-34-5)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

Other adverse effects : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Note: As product is intended as a fire fighting foam, in Concentrate form, it will create copious quantities of foam if washed into watercourses, although it is biodegradable. In the event of large spillage, advise appropriate authorities.

Section 13: DISPOSAL CONSIDERATIONS

Obtain required disposal procedure compliant with the local authority applicable.

Where applicable, disposal should be performed in conjunction with a provider possessing the applicable licences or authority.

Dispose of waste or surplus product or contaminated packaging according to local and national legislation. Do not dispose with water reactive materials.

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Section 14: TRANSPORT INFORMATION

Transport via:

Road and Rail – Australia

Applicable Regulation:	Australian Code for the Transport of Dangerous Goods by Rail and Road.
Classification:	2.2 - Non-Flammable / Non-Toxic Gas
UN Number:	1044
Shipping Name:	Fire Extinguishers with Compressed or Liquefied Gas

Marine Transport

Applicable Regulation:	International Maritime Dangerous Goods Code (IMO/IMDG)
Classification/ Division:	2.2 - Non-Flammable / Non-Toxic Gas
EmS:	F-C, S-V
UN Number:	1044
Shipping Name:	Fire Extinguishers with Compressed or Liquefied Gas
IMDG Marine Pollutant:	No
Packing Group:	Not Applicable
Special Precautions:	Not Applicable



Section 14: TRANSPORT INFORMATION (contd.)

Air Transport

Applicable Regulation:	International Air Transport Association (IATA)
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NOT RECOMMENDED

Section 15: REGULATORY INFORMATION

Regulatory Information:	Not classified as Hazardous by Work, Health and Safety Regulations, Australia
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Section 16: COMPLEMENTARY GENERAL INFORMATION

Aqueous Film Forming Foam (AFFF) Foam is a fire extinguishing agent.

There is no other purpose allowed. The manufacturer cannot be considered as responsible in case of wrong utilisation or irrelevant use.

This data is based on our knowledge as at the date of issue.

It shall not constitute a guarantee for any specific product featured and shall not establish a legally valid contractual relationship.