

# SDS SAFETY DATA SHEET

PRODUCT DESCRIPTION:	<b>Fireout AFFF Foam Extinguisher</b>
CODES:	E9FFO, EM50F, EM100F.
CATEGORY:	FIRE FIGHTING APPLIANCES – AFFF FOAM
REVISION DATE:	26 APRIL 2020

## SECTION 1 – IDENTIFICATION OF THE MATERIAL AND SUPPLIER

<b>Product Identifier:</b>	Fireout AFFF Foam Fire Extinguisher
<b>Other Means of Identification:</b>	<b>Part Number</b> Fireout AFFF Foam Fire Extinguishers <b>E9FFO</b> 9.0ltr AFFF Foam fire extinguisher <b>EM50F</b> 50ltr AFFF Foam mobile fire extinguisher <b>EM100F</b> 100ltr AFFF Foam mobile fire extinguisher
<b>Recommended use of the chemical and restrictions on use:</b>	Fire fighting apparatus and medium.
<b>Supplier Name:</b> <b>Address:</b> <b>Telephone Number:</b> <b>Emergency Number:</b> <b>Website:</b> <b>Email:</b>	Australia Wide Fire Supplies Unit 5/54 Pendlebury Road, Cardiff NSW 2285 +61 2 4954 0333  Emergency 000 AWFS +61 2 4954 0333 (9am-5pm AET, Mon-Fri) <a href="http://www.awfs.com.au">www.awfs.com.au</a> <a href="mailto:sales@awfs.com.au">sales@awfs.com.au</a>


**AUSTRALIA WIDE FIRE SUPPLIES** ABN 80393915621 UNIT 5/54 PENDLEBURY RD CARDIFF NSW 2285

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**SECTION 2 – HAZARDS INFORMATION****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**

<b>Hazard Pictograms:</b>	
<b>Pictogram Code:</b>	<b>GHS04 Gas Cylinder</b>
<b>Signal Word:</b>	<b>WARNING</b>

**Hazard Statements**

H280 Contains gas under pressure; may explode when heated

**Precautionary Statements**

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

**SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS****General Information:**

<b>Chemical Identity of Ingredients:</b>	<b>CAS No.</b>	<b>Proportion of Ingredients:</b>
Ethanol C <sub>2</sub> H <sub>5</sub> OH	64-17-5	>5%, <10%
Urea CH <sub>4</sub> N <sub>2</sub> O	57-13-6	<0.5%, <5%
Total Fluoro Content		<0.041% @ 1.5%
Water	7732-18-5	Balance

**Hazard Identification:**

<b>Ingestion</b>	Burning sensation. Cough. Cramps. May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract. Swallowing a small quantity of this material will result in serious health hazard. Must not come into contact with food or be consumed.
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**SECTION 4 – FIRST AID MEASURES**

<b>Eye contact (symptoms, special &amp; medical treatment):</b>	Remove any contact lenses and open eyes wide apart. Rinse cautiously with water. Continue rinsing. Get medical attention if irritation develops and persists.
<b>Skin Contact (symptoms, special &amp; medical treatment):</b>	Wash the skin immediately with soap and water. Get medical attention if irritation develops and persists.
<b>Inhalation (symptoms, special &amp; medical treatment):</b>	Move injured person into fresh air and keep person calm under observation. Seek medical attention, if needed.
<b>Ingestion (symptoms, special &amp; medical treatment):</b>	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**

Provide general supportive measures and treat symptomatically.

**SECTION 5 – FIRE FIGHTING MEASURES**

<b>Suitable extinguishing equipment:</b>	This preparation is an extinguishing media.
<b>Specific hazards arising from the chemical:</b>	Not a fire hazard.
<b>Special protective equipment and precautions for fire fighters:</b>	Wear breathing apparatus and protective gloves. Prevent, by any means available, 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 minimize the risk of exposure.
<b>Environmental precautions:</b>	Do not allow to enter surface water or drains. Cover drains.
<b>Methods and materials for containment and cleaning up:</b>	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.

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**SECTION 7 – HANDLING AND STORAGE****Precautions for Safe Handling**

<b>Safe Handling:</b>	<ul style="list-style-type: none"> <li>• Avoid contact with skin and eyes.</li> <li>• Wear appropriate PPE.</li> <li>• Do not eat, drink or smoke when handling</li> <li>• Always wash hands with soap and water after handling</li> <li>• Observe good industrial hygiene practices.</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 with 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> <li>• Store at +5C – 60°C</li> <li>• Keep away from sodiumhypochlorite (bleach).</li> </ul>
<b>Unsuitable storage containers:</b>	Not known.

**SECTION 8 – EXPOSURE****Occupational Exposure Limits**

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

<b>Chemical Name</b>	<b>CAS No.</b>	<b>TWA<sup>1</sup></b>	<b>STEL<sup>2</sup></b>
Ethanol	64-17-5	ppm: mg/m <sup>3</sup> : 1920 ppm: 1000	ppm: - mg/m <sup>3</sup> :
Nitrogen	7727-37-9	Not classified	

Substance when calculated over an eight-hour working day, for five-day working week.

<sup>1</sup>TWA (8-Hour Timed Weighted Average)- means the maximum average airborne concentration of a substance when calculated over an eight-hour working day, for 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>	Ensure adequate ventilation, especially in confined areas. Observe occupational exposure limits and minimize the risk of exposure.
<b>Personal protective equipment:</b>	Eye protection – safety goggles with side shields. Skin protection – chemical resistant gloves. Respiratory & Ingestion protection – Not normally required under normal conditions of use. If vapours reach irritating levels, wear a

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	NIOSH-approved respirator equipped with organic vapour cartridges.
<b>SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES</b>	
<b>Appearance (colour, physical form, shape):</b>	Clear pale yellow or brown, liquid.
<b>Odour:</b>	Organic
<b>Odour Threshold:</b>	Not available.
<b>pH:</b>	8.0 – 10.0 @ 20°C.
<b>Vapour pressure:</b>	Not applicable.
<b>Vapour density:</b>	1.07 @ 20°C.
<b>Boiling point/range:</b>	100°C (212°F) at 760 mmHg
<b>Freezing/melting point (specify which):</b>	-2°C (28,4°F).
<b>Evaporation rate:</b>	Not applicable.
<b>Flammability:</b>	Not applicable.
<b>Flammability or Explosive limits:</b>	Not applicable.
<b>Solubility (specify solvent, e.g. water):</b>	Complete in water.
<b>Relative density:</b>	1,01
<b>Partition coefficient (n-octanol/water):</b>	Data not applicable.
<b>Flash point and method detecting flash point:</b>	>47°C
<b>Ignition temperature:</b>	Not applicable.
<b>Decomposition temperature:</b>	Data not available.
<b>Viscosity:</b>	2 cSt

#### SECTION 10 – STABILITY AND REACTIVITY

<b>Reactivity:</b>	This product is stable and non-reactive under normal conditions of use, storage and transport.
<b>Chemical stability:</b>	Stable at normal conditions.
<b>Possibility of Hazardous reactions:</b>	Hazardous polymerisations does not occur.
<b>Conditions to Avoid:</b>	Contact with incompatible materials. Excessive heat. Freezing (Product properties are unaffected).
<b>Incompatible materials:</b>	Alkali metals. Strong oxidizing agents. Water reactive materials.
<b>Hazardous decomposition products:</b>	Carbon dioxides. Sulphur oxides. Hydrogen fluoride. Nitrogen oxides (NOx). Magnesium oxides. Sodium oxides. Natriumhypochlorite (bleach).

**SECTION 11 – TOXICOLOGICAL INFORMATION****Information on Toxicological Effects**

This product has not been tested for toxicological effects.

<b>Acute toxicity:</b>	Causes serious eye irritation. May cause skin irritation. May cause mild central nervous system effects.
<b>Skin corrosion / irritation:</b>	May cause skin irritation.
<b>Serious eye damage / irritation:</b>	Causes serious eye irritation.
<b>Respiratory or skin sensitization:</b>	Data not available.
<b>Germ cell mutagenicity:</b>	Data not available.
<b>Carcinogenicity:</b>	Data not available.
<b>Reproductive toxicity:</b>	Data not available.
<b>Specific Target Organ Toxicity (STOT) – single exposure:</b>	Data not available.
<b>Specific Organ Target Toxicity (STOT) – repeated exposure:</b>	Data not available.
<b>Aspiration Hazard:</b>	Data not available.

**Information on Possible Routes of Exposure:**

<b>Eye contact:</b>	Causes serious eye irritation.
<b>Skin contact:</b>	May cause skin irritation. Prolonged or repeated skin contact may cause drying, cracking, or irritation.
<b>Inhalation:</b>	May cause mild central nervous system effects.
<b>Ingestion:</b>	May cause dizziness, incoordination, headache, nausea, and vomiting.

**Early Onset Symptoms Related to Exposure:**

Data not available.

**Delayed Health Effect 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 – Ecotoxilogical Information – Aquatic Toxicity, ECHA.

Substance	Endpoint	Test Duration (hr)	Species	Value
OECD	LC50	24	Fish	1300 ppm
	LC50	3	Fish	1800 ppm
AFFF Foam (mixture)	LC50	48	Fish	1300 ppm
	LC50	6	Fish	1600 ppm
	LC50	72	Fish	1300 ppm
	LC50	96	Fish	1300 ppm
Nitrogen	Not classified			

<b>Persistence and degradability:</b> OECD 302B Resp. EU C.9.	The product can be considered “inherently biodegradable”. 93% in 8 Days.
<b>Mobility in soil:</b>	The product is water soluble and may spread in water systems.
<b>Bioaccumulative potential:</b>	The product is not expected to bioaccumulate.
<b>Other adverse effects:</b>	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

<b>Disposal methods and containers:</b>	Dispose of in compliance with national, regional and local provisions that may be in force.
<b>Physical / Chemical Properties that may affect disposal options:</b>	Not known.
<b>Effects of Sewerage:</b>	Not known.
<b>Disposal:</b> <b>Special precautions for landfill or incineration:</b>	Not known.

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**SECTION 14 – TRANSPORT INFORMATION**

<b>Labels Required:</b>	 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.*

<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 Sub Risk Not Applicable.
<b>Packaging Group:</b>	Not applicable.
<b>Environmental hazards for Transport Purposes:</b>	Not applicable.
<b>Special precautions for user:</b>	Special Provisions: 225
<b>Hazchem Code:</b>	Not Applicable.

**Air Transport (ICAO, IATA - DGR):**

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

<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 Sub Risk Not Applicable.
<b>Packaging 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: Restricted
<b>Hazchem Code:</b>	Not Applicable.

**Sea Transport (IMO - IMDG):**

Classification as Dangerous Goods according to the *International Maritime Dangerous Goods Code (IMDG), International Maritime Organisation (IMO).*

<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 Sub Risk Not Applicable.

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<b>Packaging 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 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 D, 26 April 2020
<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. Australia Wide Fire Supplies shall not be held liable for any damage or loss resulting from handling or from contact with the above product.

End SDS

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