

PRODUCT SAFETY DATA SHEET

REF: 05-4931-1

**3M 1% AFFF – FC – 201F****1. IDENTIFICATION OF SUBSTANCE/COMPANY/UNDERTAKING**

**Product name:** 3M LIGHT WATER 1% AFFF  
**Application:** Fire extinguishing agent  
**Company:** Gloria plc  
**Address:** 1 Marchants Way, Sheddingdean Industrial Estate,  
Burgess Hill, West Sussex RH15 8QY  
**Tel:** 01444 247799

**2. COMPOSITION INFORMATION ON INGREDIENTS**

Ingredient	CAS No.	%
Water	7732-18-5	35-38
Ethanol 2 (2 Butoxyethxy) Alkyl Sulfate salts (2) + (5884P, 5886P)	Trade secret	34.5-37.5
Amphoteric Fouroalkyamide derivative + (5887P)	Trade secret	5-10
TRIETHANOLAMINE	102-71-6	1-5
Perfluoroalkyl sulfonate salts (5) + (588SP)	Trade secret	1-5
TOLYLTRIAZOLE	29385-43-1	0.1-1

**3. HAZARDOUS IDENTIFICATION**

Harmful if in contact with the skin or if swallowed. Will cause irritation of the eyes.

**4. FIRST AID MEASURES**

**Contact with eyes:** Flush the eyes immediately with lots of water for at least 15 mins. Get immediate medical attention.

**Contact with the skin:** Avoid skin contact. Wear appropriate gloves when handling this product. A pair of gloves of the following material is recommended: butyl rubber.

**Inhalation:** If any signs/symptoms occur remove person

into fresh air. If symptoms persist, get medical attention.

**Ingestion:** Do not cause vomiting. Drink two glasses of water. Get medical attention.

## 5. FIRE FIGHTING MEASURES

**Flash point:** Sataflash none

**Flammable limits:** n/a

**Auto ignition temperature** n/a

This product is an extinguishing agent used for fire fighting.

**Special exposure hazards:** Thermal decomposition may produce toxic materials, including trace amounts of hydrofluoric acid.

**Protective equipment:** Not normally required.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Spilled product is a significant slip hazard.

**Environmental precautions:** Observe precautions as for other sections. Ventilate area. Contain spill. Collect spilled material. Clean up residue with water. Place in an approved container and seal.

**Decontamination procedure:** Soak up with absorbent material and remove by best possible means. Clean up any residue with water.

## 7. HANDLING & STORAGE

**Handling:** To avoid the possibility of any skin disorders, repeated or prolonged contact with this type of product must be avoided. Maintain a very high standard of personal hygiene. Wash hands thoroughly if in contact with this product.

**Storage:** Frost protected to -0°C. Keep out of direct sunlight.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Eye protection:** Avoid any contact with the eyes.

**Hand protection:** Use suitable gloves whilst using the product.

**Skin protection:** Avoid any skin contact. Avoid prolonged or repeated skin contact.

<b>Respiratory organ protection:</b>	Choose one of the following according to pollutant concentration in the air: Half mask or breathing set for organic vapours.
<b>Ingestion:</b>	Do not eat or drink during the use of the product.
<b>Suggested ventilation:</b>	Use with suitable localised suction. Use in well ventilated place.

## 9. PHYSICAL & CHEMICAL PROPERTIES

<b>Physical state:</b>	Liquid	<b>Colour:</b>	Clear amber
<b>Odour:</b>	Mild	<b>pH (concentrate):</b>	pH 7.5-8.5
<b>Boiling point/range:</b>	212 °F	<b>Flash point:</b>	NOT flammable
<b>Auto ignition:</b>	n/a	<b>S.P.Gravity:</b>	ca. 1.100 water = 1
<b>Water solubility:</b>	Miscible	<b>Viscosity:</b>	n/a

## 10. STABILITY & REACTIVITY

<b>Stability:</b>	Stable. Does not polymerise in a dangerous way.
<b>Conditions to avoid:</b>	Temperatures < 0°C and > 48°C
<b>Materials to avoid:</b>	n/a

<b>Hazardous decomposition products:</b>	Hydrofluoric acid. Toxic vapours, gases or particles. The decomposition at the use of concentrations is not dangerous.
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## 11. TOXICOLOGICAL INFORMATION

### Health effects:

<b>On eyes:</b>	<b>Moderate irritation of the eyes; signs/symptoms include redness, swelling, pain, tearing and hazy vision.</b>
<b>On skin:</b>	<b>Moderate skin irritation; signs/symptoms can include redness, swelling, itching and dryness.</b>
<b>By inhalation:</b>	<b>Single exposure above recommended guidelines can cause: Central nervous system, signs/symptoms can include aches, dizziness, drowsiness, incoordination, slowed reaction time, slurred speech, giddiness and</b>

unconsciousness.

**Irritation (upper respiratory):  
signs/symptoms can include soreness of  
the nose and throat, coughing and  
sneezing, edema.**

## 12. ECOLOGICAL INFORMATION

### Environmental/Ecotoxicity Data

COD = 1g/g                      BOD 5 = 19 g/g                      BOD 20 = 0.66 g/g  
**96 – Hr. Fathead Minnow (*Pimephales promelas*) = 500 mg/l**

## 13. DISPOSAL CONSIDERATION

Observe local and National legislation.

### Spill response:

Observe precautions for other sections.  
Ventilate area. Contain spill. Collect spilled  
material. Clean up residue with water. Place  
in approved container and seal. Clean up  
residue with water.

### Recommended disposal:

Discharge spent solutions in small quantities  
(less than 5 gal/19ltr.) to a wastewater  
treatment system. Incinerate in an industrial  
or commercial facility in the presence of a  
combustible material. Combustion products  
will include HF.

Alternatively: dispose of completely absorbed  
waste product in a facility permitted to accept  
chemical wastes.

### Packaging:

Must be disposed of through an authorised  
waste contractor.

## 14. TRANSPORT INFORMATION

The product is NOT classified as dangerous goods for transport.

## 15. REGULATORY INFORMATION

Avoid contact with eyes. Avoid prolonged contact with the skin. In the event of contact with the eyes wash immediately flush with large amounts of water and seek medical attention. Flush the skin with large amounts of water and wash with soap. In the event of ingestion do not cause vomiting, seek immediate medical attention.

### EC Directives:

Dangerous Preparations Directive:  
88/379/EEC  
Safety Data Sheets Directive: 91/155/EEC

Framework Waste Directive: 91/156/EEC

**Statutory requirements:**

Health & Safety at Work: Act 1974  
Consumer Protection Act: 1987  
Control of Substances Hazardous Health  
etc.: 1988 (SI1657)  
Environmental Protection Act 1990  
Chemicals (Hazard Inf.Packing) 1993  
(SI1746)

**Codes of practice:**

Safety Data Sheets for Substances and  
Preparations for Dangerous Supply (L37).

**Guidance notes:**

Occupational Skin Diseases (EH26)  
Occupational Exposure Limits (EH40)  
Classification and Labelling of Substances  
and Preparations for Dangerous Supply (L38)  
Occupational Contact Dermatitis [MS(b)6]  
dermatitis Cautionary Notice [SHW 367]

(Above publications can be obtained from the HMSO or HME.)

## 16. OTHER INFORMATION

The product should not be used other than for the stated application or applications without first consulting us. The data and advice given is based on the stated application for which it is intended. Other uses may give rise to risks that are not covered in this sheet.

For training and other such activities, we recommend due care and consideration is given to avoid as much as possible the disposal of the product into the environment.

The information contained in these data sheets is based upon the current state of knowledge and experience and should be used in accordance with the safety information described above.

The data given does not guarantee the properties of the product.

If the product has been purchased and supplied to a third party, then it is your duty to make them aware of the information duly contained in these data sheets.