

# Material Safety Data Sheet



## Moyne Roberts Ltd

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### 1. IDENTIFICATION

Product Name Moyne Roberts 1% AFFF Foam Concentrate. Code No. 10010608  
Uses Fire fighting foam concentrate for use on Class A & B Fires  
Manufacturer / Supplier Moyne-Roberts (IRL) Limited  
Moynehall, Cavan, Ireland.  
Tel: +353 (0) 49 4332477  
Fax: +353 (0) 49 4361159  
E-Mail: [moyne@eircom.net](mailto:moyne@eircom.net)  
Web: [www.moyneroberts.com](http://www.moyneroberts.com)

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### 2. COMPOSITION / INGREDIENTS

Chemical description : Fire extinguishing foam concentrate based on fluorinated and non-fluorinated surfactants.

<u>Designation</u>	<u>CAS No.</u>
1,2-Ethandiol	107-21-1
2-ethanol	112-34-5
Synthetic Surfactant	Trade secret
Fluorosurfactant	Trade secret

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### 3. POSSIBLE HAZARDS



May be harmful if ingested in quantity, causing nausea, vomiting and diarrhoea. Irritating to eyes.  
Avoid skin contact. Wear hand and eye protection when handling.

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### 4. FIRST AID MEASURES

Eyes: Irrigate thoroughly with water. If discomfort persists obtain medical advice.  
Skin: Wash off thoroughly with soap and water.  
Mouth: Wash out mouth with water. In severe cases obtain medical attention.  
Inhalation: Seek medical attention

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## 5. FIRE FIGHTING MEASURES

Not flammable

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## 6. ACCIDENTAL RELEASE MEASURES

Wear appropriate protective clothing. Prevent discharge into surface water drainage. Dispose of in accordance with local sewage regulations. For small spillages mop up with plenty of water (dilution 0.1% minimum) and transfer to container and arrange removal to disposal company or authority. Wash site of spillage thoroughly with detergent and water.

For large spillages the liquid should be contained with liquid binding materials, sand or sawdust and transferred to salvage containers, any residues to be treated as small spillages. If the solution has entered surface drains it may be necessary to inform the local authority. Provide ventilation in enclosed places. Avoid eye and skin contact.

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## 7. HANDLING AND STORAGE

No special handling techniques are required. The product should be stored in the sealed original containers above +5 C and below 50 C. Freezing and thawing does not affect the substance properties. It is recommended that gloves and goggles be worn as a precautionary measure.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Components with critical values requiring monitoring at workplace:

CAS No.	Chemical Designation.	Type.	Value.	Unit.
107-21-1	1,2-Ethandiol	MAK	10	ppm
112-34-5	2-(2-Butoxyethoxy)ethanol	MAK	100	mg/m <sup>3</sup>

Respiratory Protection: Not required

Hand Protection: Suitable protection may be provided by using chemical resistant gloves made from nitrile or butyl rubber of at least 0.4mm thickness according to EN 374 - Part 3 Level 6. Always seek advice from glove suppliers. Note that the durability of the recommended gloves can be shorter than the permeation times found in EN 374 due to different influences (e.g. temperature)

Eye Protection: Use safety goggles.

General: Remove any contaminated clothing. Keep away from food and beverages. Wash hands after handling.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state, colour. Pale yellow liquid.

### Typical Physical and Chemical Properties

Density	1.25 g/ml
pH at 20 degrees centigrade	9.6
Boiling point	105 C at 760 mm hg

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Freeze point	-20 C
Solubility	Miscible with water in all proportions.
Flash point	In excess of 100 degrees centigrade.
Explosive properties	Not explosive

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## 10. STABILITY AND REACTIVITY

Chemical Stability:	Stable
Thermal decomposition:	None with appropriate use
Hazardous decomposition products:	None known

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## 11. TOXICOLOGICAL INFORMATION

Skin contact:	Classified as irritant to EC Directive 1999/45/EU
Eye contact:	Classified as non-irritant to EC Directive 1999/45/EU
RAT toxicity LD50 oral:	>2000mg/kg
Carcinogenicity:	No evidence of carcinogenic properties.
Mutagenicity / Teratogenicity	No evidence of mutagenicity / teratogenicity effects.
Exposure limits	Exposure limits not assigned. (Long-term, 8 hour TWA)

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## 12. ECOLOGICAL INFORMATION

Persistence/degradability:	Readily biodegradable
Bioaccumulation:	Bioaccumulation is unlikely to occur due to metabolism and excretion
Ecotoxicity:	Fish: appr. 1.780 mg/l (48h DIN 38412-15) Algae: appr. >10<100 mg/l(72h OECD 201)* Daphnia: appr. >100< 1.000 mg/l (48h OECD)* 202
Influence on sewage systems	Influence unlikely if the concentrate is induced at concentrations less than 300.000 mg/l

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## 13. DISPOSAL CONSIDERATIONS

Waste should be disposed of via local authority waste collection service or registered waste carrier for incineration. Do not dispose of with household waste.  
European waste code : 16 03 05\* Organic wastes containing dangerous substances.

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## 14. TRANSPORT INFORMATION

Not classified as hazardous for transport	
UN Proper shipping name:	Not regulated
UN Class:	None
UN Number:	None
UN Packaging Group:	None

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## 15. REGULATORY INFORMATION

UK Regulatory References: Health and Safety at Work Act 1974  
Chemicals (Hazard Information & Packaging for Supply) Regulations 1994  
EC Directives: Substances Directive 67/548/EEC including amendments  
General Preparations Directive 88/379/EEC  
Environmental Protection Act 1990 Part 11 : Environmental Protection (Duty of Care) Regulations  
1991 (S1 2839)  
Guidance Notes: Occupational Exposure Limits EH40/96

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## 16. OTHER INFORMATION

The information on this data sheet is based on present knowledge and legislation. It provides guidance on safety and environmental aspects of the product and should not be construed as any guarantee of performance. This product should not be used for purposes other than fire fighting the appropriate class of fire. The user is responsible for ensuring that the requirements of relevant legislation are complied with.

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