



## Trainol 3

Training Foam (TF)  
Concentrate

### Integrity

*Doing what's right, rather than what's convenient*

Angus Fire prides itself on the open and honest way in which we conduct our business throughout the world. Our foams are an extension of our ethical beliefs and we pride ourselves in being the responsible foam manufacturer, balancing high performance with minimal environmental impact. Our fluorine free foams are designed not to contain any fluorosurfactants, fluoropolymers, organohalogens, PFCAs, PFOA and no PFOS in accordance with EU Directive 2006/122/EC and amended Council Directive 76/769/EEC.

### Balanced Chemical System

Each training foam is designed to be used in live fire training scenarios and do not contain the active ingredients which enable high performance foams to work. These foams are kinder to the environment and can be used for training and testing of systems when required.



- Low toxicity
- Mimics the performance of Angus Tridol<sup>66</sup> S 3 AFFF
- Can be used routinely as a substitute for vehicle and equipment testing

**A fluorosurfactant free training foam which mimics the application and physical properties of Angus Tridol<sup>66</sup> S AFFF 3% fire fighting foam.**

Angus Fire has increasingly recognised its joint responsibility with foam users to ensure that the environmental impact from the use of foams and fire ground run-off is minimised. A key element of this responsibility is to control and reduce the volume of fluorosurfactants and other potentially harmful chemicals being released into the environment.

The use of low toxicity training foams permit front-line fire fighters to be continuously trained in critical fire fighting techniques to ensure high performance standards are maintained.

The potential for conflict between all these objectives is clear, no more so than in aviation fire fighting. Angus Fire has developed Trainol 3 Training Foam to eliminate this conflict and allow foam users to meet their key objectives and responsibilities within the legislative requirements.

#### Description

Trainol 3 is a Fluorine-Free Foam (F3) concentrate for 3% usage, which has been specially formulated to provide a unique training foam with a synthetic base material but no fluorosurfactants.

Trainol 3 mimics the performance of Angus Tridol<sup>66</sup> S 3 AFFF, the aviation industry standard for fire fighting foams, to provide realistic fire training without the use of fluorinated chemicals.

With almost identical induction characteristics to Angus Tridol<sup>66</sup> S 3 AFFF, Trainol 3 is the first foam which can be used routinely as a substitute for vehicle and equipment testing, while complying with Civil Aviation and Environment Agency regulatory requirements.

Trainol 3 was developed to meet the stringent environmental and regulatory requirements of the aviation sector, but this does not limit its use to aviation. Trainol 3 has clear training benefits for other fire fighting applications like offshore drilling and production platforms.

#### Environment

Trainol 3 is formulated for minimum environmental impact. It is produced from synthetic detergent, and is free of fluorinated chemicals, and glycol ethers. It is also readily biodegradable.

#### Application

Trainol 3 should be used in training through conventional foam induction and delivery equipment (such as the Angus Hi-Combat range of portable foam equipment). It is not recommended for real life fire fighting incidents.

#### Induction

3% induction is recommended to simulate induction and foam quality performance of Tridol<sup>66</sup> S 3 AFFF.

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### Storage Recommendations

Trainol 3 should be stored in the original containers and according to Angus Fire's storage recommendations. The labels are colour coded green to avoid confusion with front-line Angus fire fighting foams. Trainol 3 should be used within 2 years from the date of purchase.

### Disposal

For fire water runoff and accidental spillage please refer to Angus Fire's Foam Disposal Guide and MSDS for more information.

### Reliability

Trainol 3 is produced to rigorous quality control standards which ensure consistent fire performance and excellent product reliability.

Angus Fire operates a quality management system which complies with the requirements of BS EN ISO 9001:2008.

#### Typical Physico-Chemical Properties

Appearance		Yellow Liquid
Specific gravity @ 20°C (68°F)		≥ 1.01
pH @ 20°C (68°F)		7.5 - 8.5
Viscosity @ 20°C (68°F)	mm <sup>2</sup> sec <sup>-1</sup>	1 - 3
Maximum continuous storage temperature	°C (°F)	49 (120)
Maximum intermittent storage temperature	°C (°F)	60 (140)
Freezing point	°C (°F)	-3 (27)
Effect of freeze/thaw		No loss of performance
Lowest use temperature	°C (°F)	0 (32)

#### Typical Foam Properties

Foam generated using the U.K. Defence Standard DEF42-40 5 lpm branchpipe at 7 Bar pressure. Foam collected in a 1630 ml N.F.P.A. drainage pan.

Expansion ratio		≥ 7:1
25% drainage time	min/sec	≥ 3'00"

#### Typical Packing Specification

Container type	Green Plastic Rectangular	Green Plastic Cylindrical
Capacity	20 litres	200 litres
Full weight (kg)	23	230
Nominal dimensions (mm)	300 L x 250 D x 390 H	580 dia x 922 H
Part number	F0391GOP	F0391JOP



**EMERGENCY FOAM SERVICE** Call +44 (0) 15242 61166 – 24 hours a day, every day

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Angus Fire operates a continuous programme of product development. The right is therefore reserved to modify any specification without prior notice and Angus Fire should be contacted to ensure that the current issues of all technical data sheets are used.