



## Tridol<sup>C6</sup> S1

### Synthetic Aqueous Film-Forming Foam (AFFF) Concentrate

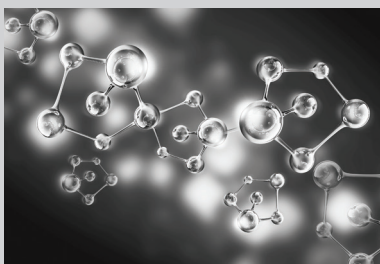
#### Integrity

*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 C6 foams contain no PFOA and no PFOS, in accordance with US EPA Stewardship Programme 2010/15 and EU Directive 2006/122/EC and amended Council Directive 76/769/EEC.

#### C6 Fluorosurfactants

These are the most effective agents currently available to tackle serious flammable liquid fires, providing firefighter safety and asset protection. Angus foams containing C6 surfactants utilise the very latest in firefighting foam technologies, developed and refined specifically to lower the environmental impact without reducing performance.



- Film-forming for fast flame knockdown and extinguishment
- Burnback resistance and post-fire security
- Environmentally balanced

**Tridol<sup>C6</sup> S1 is a superior quality synthetic Aqueous Film-Forming Foam (AFFF) concentrate for extinguishing and securing flammable hydrocarbon liquid fires.**

Tridol<sup>C6</sup> S1 is a unique combination of hydrocarbon and fluorochemical surface active agents. It produces a vapour-sealing aqueous film that spreads rapidly over the fuel surface to provide rapid control and extinguishment.

- Film-forming for fast flame knockdown and extinguishment.
- Burnback resistance and post-fire security.
- Foam blanket reseals when ruptured by personnel or equipment.

#### Applications

Tridol<sup>C6</sup> S1 is used in high risk situations where hydrocarbons (such as crude oil, diesel and aviation kerosene) are stored, processed, or transported. It is used extensively on Rapid Intervention Vehicles (RIV) where fast extinguishment with limited quantities of foam is essential for saving life. Other applications include hydrocarbon storage tanks, process areas, warehouses, power stations and offshore platforms.

Tridol<sup>C6</sup> S1 provides a vapour suppressing foam blanket on unignited hydrocarbon spills.

#### Approvals and Listings

Tridol<sup>C6</sup> S1 is independently tested and certified to EN1568:2008 part 3.

Performance exceeds ICAO Level B fire performance and is certified to this performance level.

Tridol<sup>C6</sup> S1 is audited and approved to Underwriters Laboratories UL162 (7th Edition).

#### Equipment

Tridol<sup>C6</sup> S1 is intended for use at 1% (1 part concentrate to 99 parts water). Tridol<sup>C6</sup> S1 is readily proportioned using conventional foam proportioning equipment.

Tridol<sup>C6</sup> S1 can be used with air aspirating discharge devices and non-aspirating. Devices include low expansion branchpipes, monitors, top pourers, rimseal pourers, as well as water and foam sprinklers. Tridol<sup>C6</sup> S1 is also suitable for base injection or sub-surface application systems.

Non-aspirated foam is suitable for shallow fuel fires and spill fires. Where a major fuel fire is involved, Angus Fire always recommends the use of aspirated foam where a stable foam blanket is essential.

# Tridol<sup>C6</sup> S1

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### Compatibility

Tridol<sup>C6</sup> S1 is suitable for use in combination with:

- Soft or hard, fresh, brackish or sea water.
- Dry powder extinguishing agents either separately or as twin agent systems due to the C6 content.
- Expanded protein-based or synthetic foams for application to a fire in sequence or simultaneously.

### Environment

The C6 surfactants balance high performance and low environmental impact. Tridol<sup>C6</sup> S1 is biodegradable and demonstrates low aquatic toxicity.

### Storage

Tridol<sup>C6</sup> S1 is exceptionally stable in long-term storage. A shelf-life of at least ten years can be expected if it is stored properly.

### Disposal

Please refer to Angus Fire's Fire Water Runoff and Accidental Spill data sheet.

### Product Quality

Tridol<sup>C6</sup> S1 production is closely controlled and is audited by UL in accordance with their approval system.

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

#### Typical Physico-Chemical Properties

Appearance		Amber liquid
Specific gravity @ 20°C (68°F)		1.025 - 1.045
pH @ 20°C (68°F)		6.6 - 7.6
Viscosity @ 20°C (68°F)	mm <sup>2</sup> sec <sup>-1</sup>	6.0
Viscosity @ 0°C (32°F)	mm <sup>2</sup> sec <sup>-1</sup>	15.0
Maximum continuous storage temperature	°C (°F)	60 (140)
Effect of freeze/thaw		None
Lowest use temperature	°C (°F)	-17.8 (0)
Sediment as shipped	% v/v	≤ 0.1
Sediment after ageing	% v/v	≤ 0.1

#### Typical Foam Properties

These vary depending on the performance characteristics of the foam. When tested in accordance with UK Defence Standard 42-40 it gives the following properties:

Expansion Ratio	≥8:1
25% Drainage Time	≥2 minutes 45 seconds

#### Typical Packing Specification

	Plastic Square	Plastic Square	Plastic Cylindrical	Plastic Cylindrical	Ecobulk MX
Capacity	25 litres	5 US gallons	200 litres	55 US gallons	1000 litres
Empty weight (kg)	1.2	0.8	9.0	9.0	70
Filled weight (kg)	27	21	217	225	1110
Dimensions (mm)	448 x 286 x 286	402 x 293 x 240	580 D x 922 H	580 D x 922 H	1200 L x 1000 W x 1160 H
Part Number	FN0304GOP	FN0304TOP	FN0304JOP	FN0304WOP	FN0304L8



**EN1568:2008  
Part 3**



**EMERGENCY FOAM SERVICE** Call 1800 099 255 – 24 hours a day, every day

AUSTRALASIAN DISTRIBUTOR  
Chubb Fire & Security  
314 Boundary Road, Dingley Victoria, 3172  
Australia  
Tel: 1300 550 574

Email: [csproducts@chubb.com.au](mailto:csproducts@chubb.com.au)

Web: [www.chubb.com.au](http://www.chubb.com.au)

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.

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