

Technical Data Sheet

**SEAGUARD MASTERFOAM AFFF 3%
HIGH PERFORMANCE FOAM CONCENTRATE ICAO LEVEL B**

Seaguard Masterfoam 3% is a high performance aqueous film forming foam concentrate suitable for use at 3% on hydrocarbon fuels such as petrol, crude oil, diesel fuels and aviation kerosene.

Description

Pale yellow liquid

Density:	1.01 ± 0.02
pH:	7.4 approx
Surface Tension:	18.5 dynes
Viscosity:	<18 mm ² sec ⁻¹
Freezing Point:	-20 C
Sediment	≤0.01 % v/v

Application

The Masterfoam 3% AFFF is an extinguishing agent that produces a stable foam blanket for fire suppression and vapour control. The foam blanket steadily releases water to cool hot fuels. The product is to be mixed at 3 parts foam concentrate and 97 parts water. The foam concentrate contains surfactants that produces a film forming action across the surface of the burning fuel to give a very fast knock down performance.



It will generate foam through air aspirating devices to produce a foam expansion rate of between 6 : 1 and 12 : 1 depending upon the equipment.

Seaguard Masterfoam 3% AFFF is suitable for use through all types of fixed systems, sprinkler systems, in line proportioners (fixed or portable), branchpipes and monitors. Masterfoam 3% AFFF is measured against the UK MoD 40-42 2002 Foam Liquids Fire Extinguishing (Concentrates, Foam, and Fire Extinguishing) and meets this standard.

Environment

Seaguard Masterfoam 3% AFFF is manufactured from fluorosurfactants, surface active agents and foaming agents to produce a very low environmental impact. Seaguard Australia has worked with suppliers of Fluorosurfactants and has formulated all our fluorosurfactants with C6 products. The Seaguard range of C6 high quality Aqueous Film-Forming Foam (AFFF) concentrates are compliant with the EPA 2010/15 PFOA Stewardship Programme. All fluorosurfactants used in the manufacture of Seaguard firefighting foams are C6 based. All

Technical Data Sheet

the fluorosurfactants used by Seaguard are sourced in Australia and have been tested and approved for use by NICNAS in Australia.

Ref: NICNAS – National Industrial Chemical Notification and Assessment Scheme

The Seaguard AFFF-C6 Foam concentrates already meet EU 2017/1000 - Guidelines and contain considerably lower PFAS type contaminants than the maximum EU quantities allowable under this regulation.

Component	EU Guidelines	AFFF-C6
PFOA or its salts	≤ 25 ppb	≤ 10.0 ppb
PFOA-related substances	≤ 1000 ppb	≤ 10.0 ppb

The FPSA has released a bulletin-“ Selection and use of firefighting foams”, May 2020, which states “C6 foams may contain trace levels of PFOA, which are unavoidably produced by the manufacturing process, but these foams are acceptable under the US EPA PFOA Stewardship program and the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) Regulation (EU) 2017/1000, see Clauses 8.1.2 and 8.1.3.”

Shelf Life

Seaguard Masterfoam AFFF 3% will store for 15 years plus, provided the product is kept under the correct storage conditions. Typically, unopened packaging will meet these conditions. The product has a neutral pH and can be stored in vacuum vented tanks manufactured from painted mild steel, fibreglass, stainless steel and HDPE.

Compatibility

Masterfoam 3% AFFF is chemically compatible with major manufacturers’ AFFF foam concentrate. As per NFPA 11 requirement: “Different brands of the same type shall not be mixed unless data are provided by the manufacturer”. As the manufacturer of the foam concentrate, Seaguard Fire Protection states that the Masterfoam 3% AFFF foam concentrate is compatible with all major suppliers of 3% AFFF foam concentrate. Seaguard Masterfoam 3% AFFF is compatible with finished foam solutions (expanded foam) of synthetic foams such as AFFF and AR-AFFF as well as all brands of Fluoroprotein, FFFP and AR-FFFP.

Masterfoam AFFF 1% is compatible with fresh, salt and brackish water (including bore water) as well as dry chemical powders and twin agent systems.

Approvals

Seaguard Masterfoam 3% AFFF is fully approved to ICAO Level B foam test.

Packaging

The liquid concentrate comes in the following:

20 litre pail

200 litre drum

1000 litre IBC

Foam Properties

Expansion Ratio ≥ 7: 1

25% Drainage Time ≥ 3mins 30 secs