



Technical Data Sheet

SEAGUARD MASTERFOAM AFFF 1% HIGH PERFORMANCE FOAM CONCENTRATE

Seaguard Masterfoam 1% 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: $<18 \text{ mm}^2\text{sec}^{-1}$

Freezing Point: -2°C

Sediment $\leq 0.01\% \text{ v/v}$

Application

The Masterfoam 1% 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 1 part foam concentrate and 99 parts water. The foam concentrate contains fluorosurfactants that produce 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 1% AFFF is suitable for use through all types of fixed systems, sprinkler systems, in line proportioners (fixed or portable), branchpipes and monitors. Masterfoam 1% 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 1% AFFF is manufactured from fluorosurfactants, surface active agents and foaming agents to produce a very low environmental impact. It is fully biodegradable and meets AS 4351-1996 standards for biodegradability.

The product and the resulting foam solution can be treated in biological waste water treatment systems.

Shelf Life

Seaguard Masterfoam AFFF 1% 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 1% 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 1% AFFF foam concentrate is compatible with all major suppliers of 1% AFFF foam concentrate. Seaguard Masterfoam 1% 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, FFFF and AR-FFFF.

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

Packaging

The liquid concentrate comes in the following:

20 litre pail

200 litre drum

1000 litre IBC

Foam Properties

Expansion Ratio $\geq 7:1$

25% Drainage Time $\geq 3\text{mins } 30\text{ secs}$