

FOMTEC® ENVIRO SEA 1%

Fluorine free foam concentrate



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Fomtec Enviro Sea 1% is a firefighting foam concentrate that has no intentionally added PFAS (fluorinated surfactants and polymers). It is a formulation consisting of surfactants, foam stabilizers, and boosters. Fomtec Enviro SEA 1% is intended for use on hydrocarbon fuel fires such as oil, diesel, and other water-immiscible fuels. Fomtec Enviro SEA 1% is specially designed for use in marine applications and for use with seawater.

- New Generation Fluorine Free Foam
- Approved according to IMO I312 / MED
- 100 % biodegradable
- Sea Water applications

DESCRIPTION

Fomtec Enviro SEA 1% can be used at 1% with fresh and sea water for low and medium expansion discharge devices. It is effective as a wetting agent for class A fires at 0.5-1%.

APPLICATION

Fomtec Enviro SEA 1% is intended for use on class B hydro-carbon fuel fires such as Oil, Diesel and other water-immiscible fuels and class A fires such as wood, paper, textiles etc.

Fomtec Enviro SEA 1% is especially suited whenever a fluorine-free alternative with high fire performance is required for marine applications and the use of seawater.

Fomtec Enviro SEA 1% should be used with low or medium-expansion discharge devices or in systems designed for use with the product based on recommended minimum application rates, application duration, and discharge devices.

Fomtec Enviro SEA 1% is suitable for mobile firefighting by use of aspirating foam discharge devices such as foam branch pipes and monitors, where application rates and technique can be adjusted to the specifics of each incident.

FIRE PERFORMANCE & FOAMING

The fire performance of this product has been measured and documented according to "International Approvals" stated in this document. The design parameters depend on the type of system and application. The use of the product should follow design guidelines. The foaming properties depend on the equipment used and other variables such as water and ambient temperatures. The average expansion with simulated sea water 5:1, average ¼ drainage time 15 minutes and with fresh water average expansion 7:1, average ¼ drainage time 2:30 minutes using UNI 86 test nozzle.

EQUIPMENT

Fomtec Enviro SEA 1% is a low viscous Newtonian foam concentrate that can easily be proportioned at the correct dilution using conventional proportioning equipment. The equipment should be designed to the foam type. Fomtec Enviro SEA 1% should be used with discharge devices having expansion ratio and drainage time within tolerances of foam properties used in fire tests made with the product.

COMPATIBILITY

Fomtec Enviro SEA 1% can be used together with foam-compatible powders and other expanded foams.

Fomtec Enviro SEA 1% concentrate should not be mixed with other foam concentrates.

For material compatibility, please refer to Fomtec Technical Advices FTA 20 addressing the topic.

TYPICAL DATA

Appearance	Clear light yellowish liquid
Specific gravity at 20°C	1,075 ± 0,01 g/ml
Viscosity at 20°C spindle #1, 60 rpm	<50 mPas
pH	6,5 – 9,5
Freezing point	-19°C
Recommended storage temperature	-19°C - 55°C
Suspended sediment (v/v)	< 0,2%

*) See detailed viscosity data below

ENVIRONMENTAL

Fomtec Enviro SEA 1% is formulated using raw materials specially selected for their fire performance and their environmental profile. The product contains no intentionally added fluorinated surfactants, polymers, and other organohalogens. Fomtec Enviro SEA 1% is 100% biodegradable and contains no intentionally added PFAS. The handling of spills of concentrate or foam solutions should, however, be undertaken according to local regulations. Normally, sewage systems can dispose of foam solutions based on this type of foam concentrate, but local sewage operators should be consulted.

Full details will be found in the Material Safety Datasheet (MSDS). For more detailed information, please consult Fomtec Technical Advices FTA 40.

STORAGE / SHELF LIFE

Stored in original unbroken packaging the product will have a long shelf life. Shelf life in excess of 10 years will be found in temperate climates. As with all foam concentrates, shelf life will be dependent on storage temperatures and conditions. For storage recommendations and material compatibility please refer to Fomtec Technical Advices FTA 10 addressing the topic.

INSPECTION/TESTING/ MAINTENANCE

All foam concentrates should be tested annually. Testing should be carried out by an approved laboratory certified to assess firefighting foam quality according to relevant standards, such as NFPA 11, EN 13565-2, EN 1568 and IMO MSC.1/Circ. 1312. Storage containers should be inspected and reevaluated for the suitability of the storage location regarding temperature fluctuations (temperature should be as stable as possible). Exposure to direct sunlight should be avoided.

PACKAGING

We supply this product in 20 litre, 25 litre or 5 US gallon cans, 200 litre or 55 US gallon drums, and 1000 litre or 265 US gallon IBC containers. Larger bulk supply is available against special request.

Volume per piece	Packaging	Part no	Approx. shipping weight*	Dimensions (mm) L x W x H
20 ltr	Can	11-6301-00	22.6 kg	295 x 260 x 376
25 ltr	Can	11-6301-01	28 kg	295 x 260 x 441
200 ltr	Drum	11-6301-02	224 kg	581 x 581 x 935
1000 ltr	Container	11-6301-04	1140 kg	1200 x 1000 x 1150

* including packaging.

INTERNATIONAL APPROVALS

- IMO 1312 / MED

ENVIRO BY FOMTEC

The Fomtec Enviro range comprises an extensive range of non-PFAS based foams suitable for use Emergency Response missions and System applications. Enviro foam concentrates are available for class A, class B fire hazards and products are available for low, medium, and high expansion discharge devices.

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