Complete range of fluorine free foams for testing, training and firefighting
Fomtec® Enviro Class A foam concentrate

Features
Approved by United States Department of Agriculture (USDA) Forest Service and QPL (qualified products List) listed
Independently tested for toxicity on mammals, fish and algae
100% biodegradable
Usage 0.1-1%

Description
Fomtec Enviro Class A is a specially selected blend of high activity hydrocarbon surfactants, selected for their environmental profile, solvents and stabilizers for use on class A fuel fires and smaller class B fires. Enviro Class A does not contain any hazardous substances and does not require any special labelling when transported.

Application
Enviro Class A provides excellent extinguishments of class A fires by providing deep penetration of the water into the burning material. At low concentrations it is also highly effective as a wetting agent. Enviro Class A is also effective on smaller class B fires. Enviro Class A can be used with both aspirating and non-aspirating discharge devices. It is compatible with all dry chemical powders.

Enviro Class A can be used in:
- Fire extinguishers
- Handline Branchpipes and Nozzles
- Helicopter Buckets
- Foam systems
- CAFS systems

Recommended Proportioning Ratio
- Helicopter Bucket 0.3% - 0.5%
- Aspirating nozzle 0.3% - 0.5%
- Non-aspirating nozzle 0.3% - 0.6%
- Compressed air foam system (CAFS) 0.1% -0.5%
- Aspirated foam on small class B fires 1%-3%

The % may vary depending on the quality of the foam blanket required.

Fire Performance & Foaming
Enviro Class A has been designed to be applied as a Wetting Agent as well as a Class A fire extinguishing agent and can be effective if proportioned from 0.1% to 1.0% according to requirements. The foaming properties are depending on equipment used and other variables such as water and ambient temperatures. Average expansion 7:1, average ¼ drainage time 02:00 minutes using UNI 86 test nozzle.

Compatibility
Contact one of the Fomtec sales team with questions.

Environmental impact
Enviro Class A is non-hazardous, biodegradable substance totally free from fluorinated surfactants. The handling of spills of concentrate or foam solutions should however be undertaken according to local regulations. Normally sewage systems can dispose foam solution based on this type of foam concentrate, but local sewage operators should be consulted in this respect.

Full details will be found in the Material Safety Datasheet (MSDS).

Technical data

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Clear yellowish liquid</td>
</tr>
<tr>
<td>Specific gravity at 20°C</td>
<td>1.02 +/- 0.01 g/ml</td>
</tr>
<tr>
<td>Viscosity at 20°C</td>
<td>≤ 30 mPas</td>
</tr>
<tr>
<td>pH</td>
<td>6.5 – 8.5</td>
</tr>
<tr>
<td>Freezing point</td>
<td>-4°C</td>
</tr>
<tr>
<td>Recommended temperature</td>
<td>storage</td>
</tr>
<tr>
<td>Surface tension</td>
<td>≤ 25,0 dynes/cm</td>
</tr>
</tbody>
</table>

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 foams, shelf life will be dependent on storage temperatures and conditions. If the product is frozen during storage or transport, thawing will render the product completely unusable.

Synthetic foam concentrates should only be stored in stainless steel or plastic containers. Since electrochemical corrosion can occur at joints between different metals when they are in contact with foam concentrate, only one type of metal should be used for pipelines, fittings, pumps, and tanks employed in the storage of foam concentrates. We recommend following our guidelines for storage and handling ensuring favourable storage conditions.

Packaging
We supply this product in 25 litre cans and 200 litre drums. We can also ship in 1000 litre containers or in bulk.

<table>
<thead>
<tr>
<th>Litres per piece</th>
<th>Packaging</th>
<th>Part no</th>
</tr>
</thead>
<tbody>
<tr>
<td>25 litres</td>
<td>Can</td>
<td>11-1050-01</td>
</tr>
<tr>
<td>200 litres</td>
<td>Drum</td>
<td>11-1050-02</td>
</tr>
<tr>
<td>1000 litres</td>
<td>Container</td>
<td>11-1050-04</td>
</tr>
<tr>
<td>Bulk</td>
<td>Special request</td>
<td></td>
</tr>
</tbody>
</table>

Approvals:
Qualified Products Listed (QPL) by US Forest Service in accordance to Forest Service Specification 5100-307a
Tested by UL to the ASTM E1321 – Lateral Ignition & Flame Spread Apparatus Testing (LIFT TEST)
Conforms to NFPA 18 and NFPA 1150
Fomtec® MB -20 foam concentrate

**Features**
- Fluorine free
- 100 % biodegradable
- Freeze temperature -21°C
- Excellent burnback resistance
- Approved: low, medium, high expansion foam

**Description**
Fomtec MB -20 is a blend of high activity, synthetic, fatty alcohol sulphates, solvents and stabilisers. Fomtec MB -20 mixed with water and converted into finished foam via low, medium or high expansion foam making equipment combats fires by engulfing the area, restricting the supply of oxygen, cooling of the liquid surface, and the suppression of flammable gases evaporating from the hot liquid surface. Used as high expansion in complete filling of enclosed rooms the medium or high expansion foams are required depending on hydrocarbon fires such as small fuel spills (low & medium expansion), protection of bunding areas (medium expansion), and it can also be used for the control and extinction of cryogenic flammable liquid fires or vapour release from toxic spillage.

**Application**
Fomtec MB -20 is a multi purpose foam which can be used at low, medium and high expansions for the extinguishment of class B hydrocarbon fires such as small fuel spills (low & medium expansion), protection of bunding areas (medium expansion), and it can also be used for the control and extinction of cryogenic flammable liquid fires or vapour release from toxic spillage.

At medium and high expansion, Fomtec MB -20 can be used for total flooding of fires involving class A and class B materials. Medium expansion type is particularly suitable for small areas such as cellars and basements of buildings and high expansion type for large areas such as ship cargo or engine rooms. It is especially suitable for dealing with fires in inaccessible locations and where damage must be kept to a minimum.

**Fire Performance & Foaming**
The fire performance of this product has been measured and documented according to "International Approvals" stated in this document. The foaming properties are depending on equipment used and other variables such as water and ambient temperatures. Average expansion 9:1, average 1/4 drainage time 03:30 minutes using UNI 86 test nozzle.

**Proportioning**
Fomtec MB -20 can easily be proportioned at the correct dilution using conventional equipment such as:
- Inline inductors
- Balanced pressure, variable flow proportioning systems
- Bladder tanks
- Around the pump proportioning systems
- Water turbine driven foam proportioners
- Self inducting branch pipes and nozzles
- High expansion foam generators
The equipment should be designed to the foam type.

**Environmental impact**
Fomtec MB -20 is formulated using raw materials specially selected for their fire performance and their environmental profile. Fomtec MB -20 is biodegradable. The handling of spills of concentrate or foam solutions should however be undertaken according to local regulations. Normally sewage systems can dispose foam solution based on this type of foam concentrate, but local sewage operators should be consulted in this respect. Full details will be found in the Safety Datasheet (SDS).

**Technical data**

<table>
<thead>
<tr>
<th>Part no</th>
<th>Light weight</th>
<th>Spec gravity at 20°C</th>
<th>Surface tension</th>
<th>Viscosity</th>
<th>pH</th>
<th>Suspended sediment (v/v)</th>
<th>Freezing point</th>
<th>Recommended storage temperature</th>
</tr>
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<tbody>
<tr>
<td>3010</td>
<td>-</td>
<td>1.00</td>
<td>26</td>
<td>2.70</td>
<td>2</td>
<td>-</td>
<td>-21</td>
<td>-25 to -15°C</td>
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<tr>
<td>3010</td>
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**Compatibility**
Contact one of the Fomtec sales team with questions.

**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 foams, shelf life will be dependent on storage temperatures and conditions. If the product is frozen during storage or transport, thawing will render the product completely usable.

Synthetic foam concentrates should only be stored in stainless steel or plastic containers. Since electrochemical corrosion can occur at joints between different metals when they are in contact with foam concentrate, only one type of metal should be used for pipelines, fittings, pumps, and tanks employed in the storage of foam concentrates. We recommend following our guidelines for storage and handling ensuring favourable storage conditions.

**Packaging**
We supply this product in 25 litre cans and 200 litre drums. We can also ship in 1000 litre containers or in bulk.

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<th>Litres per piece</th>
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<td>1000 litres</td>
<td>Container</td>
<td>11-3010-04</td>
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<tr>
<td>Bulk</td>
<td>Special request</td>
<td></td>
</tr>
</tbody>
</table>

**International Approvals**
- EN 1568 Part 1, 2, 3
Fomtec® LS xMax

Features
New Generation of High Performing Multipurpose Foam
Approved & Tested: Low, Medium, High Expansion Foam
Certificates: EN 1568-1, 2, 3, Superior Fire Performance
Fluorine Free & Biodegradable
Usage: Hydrocarbon Fires

Description
Fomtec LS xMax is a new generation of high performing, multi-purpose foam concentrate. It is consisting of hydrocarbon surfactants blended with various solvents, preservatives and stabilizers. Fomtec LS xMax is free from fluorine surfactants. Fomtec LS xMax have been designed to be used as high expansion, medium expansion and low expansion foam systems.

Application
Fomtec LS xMax is intended for use on both class B hydrocarbon fuels such as oil, diesel, gasoline and aviation fuels. Fomtec LS xMax can be used with all kinds on low, medium and high expansion devices. It is intended to be used as 3% concentrate.

Fire Performance & Foaming
The fire performance of this product has been measured and documented according to "International Approvals" stated in this document. The foaming properties are depending on equipment used and other variables such as water and ambient temperatures. Average low expansion 9:1, average ¼ drainage time 11:00 minutes using UNI 86 test nozzle. Has been fire tested against EN 1568-1, -2, and -3. The fire performance have been tested and approved by independent laboratory.

Proportioning
Fomtec LS xMax can easily be proportioned at the correct dilution using conventional equipment such as:

- Inline inductors
- Balanced pressure, variable flow proportioning systems
- Bladder tanks
- Around the pump proportioning systems
- Water turbine driven foam proportioners
- Self inducting branch pipes and nozzles

The equipment should be designed to the foam type.

Compatibility
Contact one of the Fomtec sales team with questions.

Technical data

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<tr>
<td>Freezing point</td>
<td>-6 °C</td>
</tr>
<tr>
<td>Recommended storage temperature</td>
<td>-6 – 55°C</td>
</tr>
<tr>
<td>Suspended sediment (v/v)</td>
<td>Less than 0.2%</td>
</tr>
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Environmental impact
Fomtec LS xMax is formulated using raw materials specially selected for their fire performance and their environmental profile. Fomtec LS xMax is biodegradable. The handling of spills of concentrate or foam solution should however be undertaken according to local regulations. Normally sewage systems can dispose foam solution based on this type of foam concentrate, but local sewage operators should be consulted in this respect. This product contains NO PFOS NOR PFOA. Fomtec LS xMax is formulated without the use of fluorinated surfactants. Full details will be found in the Material Safety Datasheet (MSDS).

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 foams, shelf life will be dependent on storage temperatures and conditions. If the product is frozen during storage or transport, thawing will render the product completely usable.

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International Approvals
Tested and issued by MPA Dresden, Germany
- EN 1568 part 1, part 2, and part 3