



# FLUOR-FOAMOUSSE® MARINE

## 3% F-15 #5315

### Fluoro protein foam concentrate

#### Description

FLUOR-FOAMOUSSE® MARINE 3% F-15 is based on renewable organic protein. It does not contain any harmful synthetic detergents, harmful glycol ethers or zinc chloride. Fluorinated surface active agents, stabilisers and preservatives characterise this effective product, which may provide an economical, environmentally friendly alternative to AFFF and FFFP foams.

This product is classified as non-hazardous, according to regulation (EC) 1272/2008 [CLP].

#### Properties

FLUOR-FOAMOUSSE® MARINE 3% F-15 low expansion foam allows for long projection ranges, has high flowability and is extremely resistant against burn back and heat radiation. The foam is stable on hydrocarbons containing proportions of polar solvents, as well as other highly volatile additives, such as MTBE. It does not emulsify with hydrocarbon fuels, making it ideal for direct application, as well as use in subsurface installations.

This product safely extinguishes class A and B fires and produces a gastight foam blanket on liquid surfaces.

#### Application

FLUOR-FOAMOUSSE® MARINE 3% F-15 is applied with all low expansion foam equipment and installations, including sub-surface and semi sub-surface systems. It can be used as a preventative measure to cover spills of volatile liquids. The foam blanket suppresses evaporation, preventing emission of flammable and toxic gases. Fire risk and environmental impact are thereby reduced considerably.

This foam concentrate is typically used in chemical and petrochemical industries, at airports and in offshore installations.

#### Environment

None of the raw materials used in our products are banned. Our foam concentrates comply with the latest environmental regulations, such as 'Commission Regulation (EU) No 757/2010', amending '(EC) No 850/2004.' FLUOR-FOAMOUSSE® MARINE 3% F-15 will also comply with the 'significant new use rule (SNUR)' for longchain perfluoroalkyl carboxylate proposed by the Environmental Protection Agency, which will come into effect in due course.

#### Compatibility with other foam concentrates

##### Mixing for immediate use:

FLUOR-FOAMOUSSE® MARINE 3% F-15 may be mixed, in any proportion, with other fluoroprotein foam concentrates when used immediately.

##### Mixing for long term storage:

FLUOR-FOAMOUSSE® MARINE 3% F-15 may be mixed with small quantities of other fluoroprotein foam concentrates only. Negative effects on the foam quality are not expected. Prior to replenishment, the quality and compatibility of any existing foam stocks should be examined by our laboratory.

##### Mixing with synthetic concentrates:

FLUOR-FOAMOUSSE® MARINE 3% F-15 must not be mixed with synthetic foam concentrates. Even small quantities may render the relevant products unusable.

##### Mixing with other expanded foams:

Foam generated from FLUOR-FOAMOUSSE® MARINE 3% F-15, during a firefighting operation, is compatible with all other readily expanded fire extinguishing foams, including expanded synthetic foams.

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#### Compatibility with powder

FLUOR-FOAMOUSSE® MARINE 3% F-15 foam is suitable for combined use with foam compatible dry chemical powders.

#### Packaging

FLUOR-FOAMOUSSE® MARINE 3% F-15 is available in jerrycans, plastic drums, iron drums, pallet containers (totes) and in bulk. UL approved packaging is available for FLUOR-FOAMOUSSE® MARINE 3% F-15, in 20 kg plastic jerrycans and 200 kg plastic drums. .

#### Storage

FLUOR-FOAMOUSSE® MARINE 3% F-15 may be stored, over a long period of time, in the sealed original containers and in corrosion resistant plastic or mild steel tanks. Storage temperatures range from -15°C to +50°C. Temporary freezing, at temperatures below the specified frost resistance limit, will not affect the quality.

#### Shelf Life

FLUOR-FOAMOUSSE® MARINE 3% F-15 has a shelf life of >10 years, if stored according to our recommendations (see technical info leaflet TM015 'storage protein foam concentrates').

#### Approval

FLUOR-FOAMOUSSE® MARINE 3% F-15 is approved as fire extinguishing agent for fires of class A and B according to the following standards:



IMO MSC.1/Circ. 1312 non-polar (Heptane)

Physical properties and technical data		FLUOR-FOAMOUSSE® MARINE 3% F-15	
Recommended induction rate	3%	Low expansion foam	Non-polar liquids
Foam expansion* (according to EN 1568)	5.5-9	Low expansion foam*	
25%/50% water drainage time* (according to EN 1568)	4-8 minutes	18-15 minutes	Low expansion foam*
Colour	Dark brown to black		
pH value at 20°C	6,5 - 8,0		
Density at 20°C	1,180 ± 0,02 g/ml		
Sediments	< 0,25%		
Frost resistance	-15°C		
Viscosityt at 20°C at 0°C at -15°C	< 30 mm²/sec < 60 mm²/sec < 200 mm²/sec		
Environmental acceptability	FLUOR-FOAMOUSSE® MARINE 3% F-15 is physiologically harmless and readily biodegradable. Fluorine components are not fully degradable. See material safety data sheet for further information.		
Special notes	FLUOR-FOAMOUSSE® MARINE 3% F-15 poses no health risk, provided it is used as intended as fire extinguishing foam. Fire fighting exercise and testing may have to be agreed with local authorities. Take into account when spraying persons with foam that they will not be able to breathe whilst covered with foam. See material safety data sheet for further information.		

\* Foam expansion and drainage times may vary, depending on foam equipment and operating pressure.

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**Dr. STHAMER HAMBURG**

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