

MOUSSOL®-APS LV 1/3 F-15 #6441

ALCOHOL RESISTANT AFFF FOAM CONCENTRATE



Description

MOUSSOL®-APS LV 1/3 F-15 is an alcohol resistant low viscosity AFFF fire extinguishing foam concentrate without added polysaccharides. It is based on special, fluorinated components, surfactants, antifreezing compounds and foam stabilisers.

MOUSSOL®-APS LV 1/3 F-15 is a newtonian liquid and does not contain polymers. In parts, the product is made from natural, renewable sources. The fluorinated components contained in MOUSSOL®-APS LV 1/3 F-15 are in full compliance with Directive EU 757/2010.

Properties

Due to its low viscosity, MOUSSOL®-APS LV 1/3 F-15 flows freely up to the freeze point. The foam is resistant against polar solvents and non-polar, foam destroying hydrocarbons alike. On non-polar hydrocarbons MOUSSOL®-APS LV 1/3 F-15 forms an extremely thin, aqueous film which flows ahead of the foam. A relatively short water drainage time enhances aqueous film formation and the flowability of the foam. This effect reduces the extinction time significantly and cools down the fire source. Aqueous film forming components allow its non-aspirated application on mineral oil based hydrocarbons. On polar solvents, a film forms which provides for a safe barrier against the foam destroying properties of the chemical.

MOUSSOL®-APS LV 1/3 F-15 provides for fast and effective extinction of class A + B fires. The foam is stable and forms a lasting, gastight layer over the flammable surface. The risk of re-ignition of extinguished areas is reduced considerably.

Application

MOUSSOL®-APS LV 1/3 F-15 is used with all standard low and medium expansion foam installations and mobile equipment. It is specially designed for polar, foam destroying liquids, e.g. alcohols, esters, ketones as well as non-polar hydrocarbons, e.g. petroleum products. The induction rate is 3% in water for polar solvents and 1% for hydrocarbon fires. For medium expansion foam applications on hydrocarbon fires the induction rate is 3%. Aqueous film forming fluorine components allow for non-aspirated application on non-polar hydrocarbons.

MOUSSOL®-APS LV 1/3 F-15 is also used to cover spilled chemicals to prevent flammable and toxic gas emissions. A gentle foam application is required in order to combat polar solvent fires effectively (see

technical leaflet TM 037 „Extinguishing alcohol fires“).

MOUSSOL®-APS LV 1/3 F-15 is used with tap water, seawater, brackish water and treated industrial water. When used in the presence of electrical installations observe DIN/VDE-0132, or equivalent national standards.

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.' MOUSSOL®-APS LV 1/3 F-15 will also comply with the 'significant new use rule (SNUR)' for long-chain 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:

MOUSSOL®-APS LV 1/3 F-15 can be mixed at any proportion with equivalent foam concentrates if used immediately.

Mixing for long term storage:

It is not recommended to mix MOUSSOL®-APS LV 1/3 F-15 with equivalent foam concentrates when stored. Prior to replenishment, the quality of MOUSSOL®-APS LV 1/3 F-15 stocks should be examined by our laboratory.

Mixing with synthetic concentrates:

MOUSSOL®-APS LV 1/3 F-15 must not be mixed with other types foam concentrates.

Mixing with other expanded foams:

MOUSSOL®-APS LV 1/3 F-15 foam is compatible with all other generated fire fighting foams.

Compatibility with powder

MOUSSOL®-APS LV 1/3 F-15 is suitable for the combined use with foam compatible dry chemical powders.

Packaging

MOUSSOL®-APS LV 1/3 F-15 is available in jerrycans, plastic drums, iron drums, pallet containers (totes) and in bulk.

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Storage

MOUSSOL®-APS LV 1/3 F-15 is stored long term in the sealed original containers or in non-corrosive plastic or stainless steel tanks. High temperatures up to 50°C do not affect the quality, neither does temporary freezing below the specified frost resistance limit (see technical leaflet TM 014 "Storage of synthetic foam concentrates"). Before re-filling foam concentrate stocks arrange for a quality check-up by our laboratory.

Shelf Life

MOUSSOL®-APS LV 1/3 F-15 has a shelf life of >10 years, if stored according to our recommendations (see technical info leaflet TM014 'Storage of Synthetic Fire Extinguishing Foam Concentrates').

Approval

MOUSSOL®-APS LV 1/3 F-15 is approved as fire extinguishing agent for fires of class A and B according to the following standards:



Certificate No.: KB-264/14
Part 3 (Heptane): IB/IB
Part 4 (Aceton): IC/IC --- (IPA): IA/IA
Part 1: Medium ex.



ICAO Airport Services Manual
Low expansion foam --- Level B



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

Physical properties and technical data		MOUSSOL®-APS LV 1/3 F-15	
Recommended induction rate	1%	low expansion foam	non-polar liquids
	3%	medium expansion foam	non-polar liquids
	3%	low expansion foam	polar liquids
Foam expansion* (according to EN 1568)	5 - 10	low expansion foam*	
	60 - 120	medium expansion foam*	
25%/50% water drainage time* (according to EN 1568)	2 - 4 minutes	4 - 8 minutes	low expansion foam*
	1 - 3 minutes	3 - 5 minutes	medium expansion foam*
Colour	yellow to brown		
pH value	at 20°C	6,5 - 8,5	
Density	at 20°C	1,060 ± 0,02 g/ml	
Sediments	none		
Surface tension/Spreading coefficient	< 17,5 mN/m	> 3 mN/m (Cyclohexane)	
Frost resistance	-15°C		
Viscosity	at 20°C	< 10	mm²/sec
	at 0°C	< 20	mm²/sec
	at -15°C	< 40	mm²/sec
Environmental acceptability	MOUSSOL®-APS LV 1/3 F-15 is physiologically harmless and readily bio degradable. Fluorine components are not fully degradable. See material safety data sheet for further information.		
Special notes	MOUSSOL®-APS LV 1/3 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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