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Synthetic AFFF Foam 3% MS AFFF Part No. C-301 MS

DESCRIPTION

Chemguard 3% AFFF C301 MS is a specially formulated, synthetic, aqueous film forming foam concentrate. A vapor suppressing aqueous film is formed by the foam solution draining from the expanded foam blanket. It is intended for use at a proportioning rate of 3% (3 parts concentrate to 97 parts water) on Class B hydrocarbon type fuels such as gasoline, kerosene, diesel, etc. Chemguard 3% AFFF is not intended for use on fuels which are polar solvent/water miscible such as alcohols, ketones, esters, etc.

FEATURES

- Chemguard 3% AFFF C-301 MS concentrate appears on the QPL (Qualified Products List) for MIL-F-24385F. Subsequently this product conforms to all performance and compatibility requirements of U.S. Military Specifications MIL-F-24385F.
- The Chemguard 3% AFFF C-301 MS is the only MIL-SPEC approved AFFF concentrate on the QPL that is of the "New-Generation" of "Earth Friendly" foam concentrates.
- U.L. Listed, Foam Liquid Concentrates
- Suitable for use with either fresh or salt water
- Excellent wetting characteristics when used in combating Class A fuel fires
- Suitable for use with both aspirating foam and standard water fog nozzles
- Suitable for use with deluge or closed head foam water sprinkler systems

- If inadvertently frozen, thawing will render product completely serviceable again.
- Suitable for use with carbon steel, fiberglass, polyethylene or stainless steel. Chemguard 3% AFFF C-301 MS is not compatible with galvanized pipe or fittings in an undiluted form.
- Suitable for use with siliconized dry chemical extinguishing agents
- U. L. recommended application rate on hydrocarbon type fuels is .10/gpm ft.²

PROPORTIONING

Chemguard 3% AFFF C-301 MS is designed for use with the following types of proportioning equipment.

- Fixed or portable in-line eductors
- In-line balanced pressure and pump pressure proportioning skid
- Bladder tank balanced pressure proportioning systems
- Around the pump proportioners
- Handline, air-aspirating nozzles with fixed eductor pickup tube

DISCHARGE DEVICES

Chemguard 3% AFFF C-301 MS is suitable for use with the following discharge devices.

- Foam Chambers

- Air-aspirating and non air-aspirating sprinkler heads or spray nozzles
- Standard water fog nozzles for handlines and monitors
- Air-aspirating foam nozzles
- Foam makers for use with either Floating Roof storage tanks or Dike/Bund protection systems
- High back pressure foam makers for sub-surface base injection system (hydrocarbon type fuels only)

APPLICATIONS

Chemguard 3% AFFF C-301 MS will provide quality protection for a wide range of hazardous areas such as:

- Crash Fire Rescue
- Storage tanks (non-polar solvent type fuels only)
- Truck/Rail loading or unloading facilities
- Processing/Storage facilities
- Docks/Marine tankers
- Flammable liquid containment areas
- Mobile equipment

PERFORMANCE

To ensure the fire fighting performance requirements in today's environment, Chemguard fire tests their 3% AFFF C-301 MS to the fire performance requirements of:

U.L. 162

UK. Ministry of Defense 42-24

U.S. Military Specification MIL-F-24385F

FOAMING PROPERTIES

Aspirating type discharge devices typically generate expansion ratios between 6-10 to 1 when 3% MS-AFFF is mixed with water at the correct ratio. Non-aspirating type devices will typically generate expansion ratios of between 2-4 to 1. Expansion ratios are dictated by the type of discharge devices, flow rate and discharge pressure.

TYPICAL PROPERTIES AT 77°F (25°C)

Appearance	Clear Slightly Yellow
Specific Gravity	1.079
pH	7.5
Viscosity	4.0

COMPATIBILITY

Chemguard 3% AFFF C-301 MS is compatible with any other 3% AFFF manufactured in accordance with and conforming to all performance requirements of U.S. Mil-spec Mil-F-24385F or any preceding version of this specification.

ENVIRONMENTAL IMPACT

Chemguard 3% AFFF C-301 MS is Biodegradable, low in toxicity and can be treated in sewage treatment plants. Please refer to Chemguard Technical Bulletin regarding foam products and the environment.

STORAGE

If kept in the original manufacturer's supplied container and stored within the temperature range of 35°F - 120°F (2°C - 49°C) a shelf life of between 20 - 25 years can be expected. When stored in other than the manufacturers supplied container, please check with Chemguard for storage guidelines.

ORDERING INFORMATION

Chemguard 3% AFFF is available in 5 gallon plastic pails, 55 gallon plastic drums, 330 gallon plastic bulk drums or can be shipped in bulk.

Part No. C-301 MSP	5 Gal. Pail (19 L)
Part No. C-301 MSD	55 Gal. Drum (208 L)
Part No. C-301 MSBD	330 Gal. Bulk Drum (1249 L)

SHIPPING WEIGHT

5 Gal. Pail	44 lbs.
55 Gal. Drum	485 lbs.
330 Gal. Bulk Drum	2970 lbs.