



FLUORINE FREE

Synthetic Fire-Fighting Foam Concentrate

Chemguard ECOGUARD is a specially formulated, synthetic fluorine free fire-fighting foam concentrate based on an innovative patented polymer surfactant, low-toxicity hydrocarbon surfactants, and other non-hazardous ingredients. As a result, it is substantially biodegradable and presents the lowest environmental impact of any UL listed Class B fire-fighting foam.

As an AFFF and Fluoroprotein foam alternative, this advanced formulation produces similar fire-fighting performance as AFFF and Fluoroprotein products while containing no organofluorine components. When used in systems and handline applications, ECOGUARD produces a strong and cohesive foam blanket on the surface of the fuel to extinguish fire and suppress fuel vapor.

ECOGUARD is intended for use at a proportioning rate of 3% for top-side / handline applications and select sprinkler applications on Class B hydrocarbon type fuels such as gasoline, kerosene, diesel, etc. It is also intended for use a proportioning rate of 6% for various other sprinkler applications.

ECOGUARD is to be used on hydrocarbon fuels only.

FEATURES

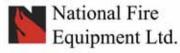
- UL Listed, "Foam Liquid Concentrates"
- GB15308-94 Approved
- Meets EN1568 Fire Test Criteria
- Because of its superior environmental impact properties, this product is ideally suited for municipalities and fire departments.
- Suitable for use with either fresh, brackish, or sea water when properly proportioned and applied.

- Contains no fluorosurfactants or organofluorine.
- Suitable for use with aspirating foam nozzles.
- Suitable for use with certain deluge and closed head foam water sprinkler systems.
- Suitable for use with carbon steel, fiberglass, polyethylene or stainless steel. Chemguard ECOGUARD is not compatible with galvanized pipe or fittings in an undiluted form.
- UL recommended application rate on hydrocarbon type fuels is 0.16 gpm/ft².
- Follow manufacturers recommendations for proportioning

PROPORTIONING

Chemguard ECOGUARD is designed for use with the following types of foam proportioning equipment.

- In-line balanced pressure and pump pressureproportioning skid.
- Bladder tank balanced pressure-proportioning systems.
- Around the pump proportioning equipment.
- Handline, air-aspirating nozzles with fixed eductor pickup tube.
- Fixed or portable in-line eductors.
- ECOGUARD is not designed for premix applications.





DISCHARGE DEVICES

Chemguard ECOGUARD is suitable for use with the following discharge devices.

- Air-aspirating and various non air-aspirating sprinkler heads or spray nozzles.
- Foam Chambers.
- Air-aspirating foam nozzles.
- Foam makers for use with either Floating Roof storage tanks or Dike/Bund protection systems.

APPLICATIONS

Chemguard ECOGUARD will provide quality protection for a wide range of hazardous areas such as:

- Storage tanks (hydrocarbon fuels only)
- Truck/Rail loading or unloading facilities
- Processing/Storage facilities
- Docks/Marine tankers
- Flammable liquid containment areas
- Mobile equipment

PERFORMANCE

Chemguard ECOGUARD is designed to perform as a "Synthetic Foam Concentrate" as defined by UL 162. It is listed for multiple applications, including topside, handline, and sprinklers.

FOAMING PROPERTIES

Aspirating type discharge devices typically generate expansion ratios between 6-10:1 when mixed with water at the correct mix ratio. Expansion ratios are dictated by the type of discharge devices, flow rate and discharge pressure.

TYPICAL PROPERTIES AT 77°F (25°C)

Specific gravity	1.11
Refractive Index	
pH	8.2
Viscosity	
Surface tension (0.1% in DI water)	

ENVIRONMENTAL IMPACT

ECOGUARD is biodegradable, low in toxicity and can be treated in sewage treatment plants.

Chemical Oxygen Demand	286.5 g/l
Biological Oxygen Demand (28 day)	
Biodegradation	
Total Organic Carbon	
Toxicity, LC50 (daphnia magna)	

STORAGE

If kept in the original 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.

Protect ECOGUARD from freezing.

ORDERING INFORMATION

Part No:	Container	Weight
CF3P	5-Gallon Pail / 19 Liters	47 lbs.
CF3D	55-Gallon Drum / 208 Liters	529 lbs.
CF3BD	330-Gallon Tote / 1249 Liters	3220 lbs.

