



ECOGUARD

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 at 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 pressure-proportioning 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.

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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..... | 1.392 |
| pH..... | 8.2 |
| Viscosity..... | 22 cPs |
| Surface tension (0.1% in DI water)..... | 27 dynes/cm |

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)..... | 188.6 g/l |
| Biodegradation..... | 65.8 % |
| Total Organic Carbon..... | 82.2 g/l |
| Toxicity, LC50 (daphnia magna)..... | 570 mg/l |

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. |