

# CHEMICAL SAFETY SHEET

## AFFF FOAM – ATC FC-600

### Description

ATC is a versatile firefighting foam for protection against a wide range of Class B flammable liquid hazards. It is a synthetic, film-forming foam designed for protection of water soluble Polar solvents as well as water-soluble Hydrocarbon flammable liquids. When used with fresh, sea or brackish water and foam generating equipment, ATC is transformed into a vapour-blanketing foam with excellent extinguishing and securing abilities. ATC's effectiveness on a wide range of flammable liquids and ordinary combustibles can eliminate the need to stock a variety of firefighting agents.

### Typical Properties

Nominal use concentration:	3% on Hydrocarbons/6% on Polar Solvents
Specific gravity @ 77°F:	1.022
Density:	8.5lbs/gal
Viscosity @77°F (25°C):	1980 centipoise
40°F (4.4°C):	2180 centipoise
Minimum use temperature:	35°F (1.7°C)
Storage temperature:	35°F - 120°F (1.7°C - 49°C)
Freeze point:	28°F (-2°C)
PH @ 77°F (25°C):	8
Appearance:	Amber thixotropic liquid

### Application

ATC is recommended for use in a wide variety of firefighting foam application devices. In addition, practical applications have been demonstrated in a number of discharge devices such as non-aspirating sprinklers, water spray nozzles and water/fog nozzles. ATC is the first alcohol type agent to achieve UL listing on both Hydrocarbon and Polar Solvent liquids through standard sprinkler heads. It is also approved by the USA Coastguard for use in foam extinguishing systems.

### Features

- Aqueous film formation – ATC, like all water AFFF concentrates, has the ability to form an aqueous film which flows quickly over water insoluble Hydrocarbon fuel surfaces causing rapid fire extinguishment and vapour suppression.
- Polymeric properties – ATC provides a membrane-like protective layer that forms on water-soluble Polar solvents (alcohols). The foam blanket and polymeric layer remain intact. Fire suppression and vapour control are positive.
- Proportions readily – ATC permits use in a wide range of proportioning equipment and is UL listed through in-line eductors as well as balanced pressure proportioning systems.
- Solution stability – solutions of ATC do not present “transit time” limitations through handlines or in fixed systems.

## **Environmental/Toxicological Properties**

Standardised tests are conducted as an ongoing program to evaluate and assess the impact of ATC on humans and the natural environment. Based on these test results, ATC is biodegradable, low in toxicity and can be treated in biological treatment systems. In its concentrate form, ATC can cause eye and skin irritation but as a foam solution there are no noticeable negative effects. Tests and actual situations have shown that animal and aquatic life are not adversely affected.

## **Storage**

When stored in accordance with the manufacturer's recommendations ATC has good stability. It should not be mixed with other agents.