



## FOAM CONCENTRATES

### **BFC - 33 BUG-EYE™ PLATINUM AR-AFFF 3% ALCOHOL RESISTANT AQUEOUS FILM FORMING FOAM CONCENTRATE (3% AR-AFFF)**

#### DESCRIPTION

Buckeye BUG-EYE™ Platinum 3% AR-AFFF concentrate is a totally unique Earth Friendly and enhanced state-of-the-art foam concentrate, designed for use on Class B Hydrocarbon and polar solvent fuel spills or fires. The BUG-EYE™ Platinum foam concentrate contains Micro-Blaze® microbes for total remediation of hydrocarbon and polar solvent fuels. The foam blanket not only has the ability to extinguish the fire, but will also digest the residual hydrocarbon and polar solvents, converting them into harmless carbon dioxide and water. For fire-fighting purposes, it functions by generating or forming an aqueous film on Class B Hydrocarbon type fuels or a polymeric membrane on polar solvent/water miscible type fuels. Buckeye BUG-EYE™ Platinum 3% AR-AFFF is intended for use at a proportioning rate of 3% (3 parts AR-AFFF concentrate to 97 parts water) on Class B Hydrocarbon fuels such as gasoline, kerosene and diesel as well as on polar solvent/water miscible fuels such as, isopropyl alcohol, ketone and ester.

#### FEATURES

- Contains Micro-Blaze® microbes for remediation of hydrocarbon and polar solvent fuels.
- U. L. Listed.
- Used at a 3% proportioning rate on both Class B Hydrocarbon and polar solvent fuels.
- Suitable for use with either fresh or salt water.
- Suitable for use with Deluge and Closed-Head Foam Water Sprinkler systems.
- Suitable for use with dry chemical extinguishing agents.
- Excellent wetting characteristics when used in combating Class A combustibles.
- Suitable for use with both air-aspirating foam and standard water fog nozzles.
- Suitable for use with fiberglass, polyethylene or stainless steel. Buckeye BUG-EYE™ Platinum 3% AR-AFFF is not compatible with galvanized pipe or fittings in an undiluted form.

#### PROPORTIONING

Buckeye BUG-EYE™ Platinum 3% AR-AFFF is designed for use with the following types of proportioning equipment.

- Fixed or portable in-line eductors.
- In-Line Balanced Pressure (I.L.B.P) 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

Buckeye BUG-EYE™ Platinum 3% AR-AFFF is suitable for use with the following discharge devices.

- Foam Chambers.
- Air-aspirating and non air-aspirating sprinklers or spray nozzles.
- Standard water fog nozzles for hand-lines 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 subsurface base injection system (Class B Hydrocarbon type fuels only).

#### FOAMING PROPERTIES

Aspirating type discharge devices typically generate expansion ratios between 6-10 to 1 when 3% AR-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 device, flow rate and discharge pressure.



## DESIGN INFORMATION

Cannot be used in subsurface applications with polar solvent type fuels.

### TYPICAL PROPERTIES AT 77°F (25°C).

Appearance: Viscous, clear light yellow.

Specific gravity: 1.015 - 1.055

PH: 7.0 - 8.0

Viscosity: 2250 - 2750 cps

### APPLICATION RATES

Recommended application rate on Class B Hydrocarbon type fuels is 0.10-gpm/sq. ft. and on polar solvent type fuels is 0.15-gpm/sq. ft. On the following specific polar solvent type fuels these are the recommended minimum application rates.

|                     |                  |
|---------------------|------------------|
| Isopropyl alcohol   | 0.15 gpm/sq. ft. |
| Methanol            | 0.10 gpm/sq. ft. |
| Ethanol             | 0.14 gpm/sq. ft. |
| Methyl Ethyl Ketone | 0.10 gpm/sq. ft. |
| Ethyl Acetate       | 0.10 gpm/sq. ft. |

### ENVIRONMENTAL IMPACT

Buckeye BUG-EYE™ Platinum 3% AR-AFFF is biodegradable, low in toxicity and can be treated in sewage treatment plants. It contains Micro-Blaze® microbes that will digest the residual hydrocarbon and polar solvent fuels and convert the waste into harmless carbon dioxide and water. Refer to Buckeye Technical Bulletin regarding foam products and the environment.

### STORAGE

If kept in the original unopened and airtight Buckeye 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. If the BUG-EYE™ Platinum 3% AR-AFFF is to be stored in an atmospheric type foam concentrate storage tank whether on mobile apparatus or stationary, it is important to limit the airspace above the surface of the concentrate. A physical barrier may be necessary. Consult Buckeye Engineering Division for additional assistance.

## ORDERING INFORMATION

Buckeye BUG-EYE™ Platinum 3% AR-AFFF is available in 5-gallon plastic pails, 55-gallon plastic drums, 275-gallon plastic totes or can be shipped in bulk.

### SHIPPING WEIGHT

5 Gal. Pail 44 lbs.

55 Gal. Drum 485 lbs.

275 Gal. Tote 2485

