

# Blackout® Class A Foam

## ENVIRONMENTALLY SAFE CLASS A FOAM CONCENTRATE TECHNICAL DATA SHEET

### PRODUCT DESCRIPTION

**Blackout Class A** foam concentrate is a biodegradable and non-reportable formula of foaming and wetting agents specifically designed for Class A applications. **Blackout Class A** foam is characterized as producing a high quality finished foam solution that increases the extinguishing effectiveness of water. **Blackout Class A** is an environmentally safe firefighting foam liquid concentrate that combines foaming, wetting and corrosion inhibiting agents. **Blackout Class A** contains highly effective surfactants that produce effective fire control with minimal personnel requirements. **Blackout Class A** is formulated to provide for adhesion to vertical and horizontal surfaces. It controls the release rate of wetting and extinguishing agents from the foam blanket to deeply penetrate into Class A fuel sources. **Blackout Class A** is an excellent fire suppression agent that increases the effectiveness of water, providing for quicker fire extinguishment of Class A fuels. **Blackout Class A** reduces personnel requirements and allows for faster overhaul operations and minimizes re-kindles. **Blackout Class A** reduces the water needs of the incident by increasing its effectiveness by three to five times. **Blackout Class A** is effective for extinguishing structural, mobile home, trash, tire, rubbish, motor vehicle, wildland fires and other Class A applications where water is normally used. **Blackout Class A** is formulated to meet the requirements of NFPA 298, Foam Chemicals for Wildland Fire Control.

### APPLICATION METHODS

**Blackout Class A** foam is compatible with a wide range of delivery devices and systems to combat a full range of Class A applications. **Blackout Class A** foam can be proportioned at low dilution ratios of 0.1% to 0.5% through fixed or portable in-line venturi type eductors; hand line nozzles with fixed induction/pickup tubes; Compressed Air Foam Systems (CAFS); batch mixing and aerial applications. **Blackout Class A** can be proportioned through medium and high expansion foam generators for total flooding applications in basements, cellars, vaults, mine shafts, ship holds and inaccessible areas where the application of water is difficult or unsafe. In this type of application, when **Blackout Class A** foam is properly applied, the foam will fill large voids with a high energy foam blanket that provides superior wetting and water retention properties. The proportioning rates for high expansion use is dependent upon the equipment manufacturer. In most cases, this will fall in the 1% to 3% range. **Blackout Class A** foam has a pronounced benefit for fire extinguishment and control during extensive salvage and overhaul operations. **Blackout Class A** foam can also be used for wildland operations to prevent the forward spread of certain types of fuel fires with these types of appliances. **Blackout Class A** foam demonstrates excellent wetting and fire extinguishment properties. It can be batch mixed at the 0.25% to 0.5% range to combat Class A fires. **Blackout Class A** foam can be effectively used with CAFS for conventional Class A applications at the 0.1% to 0.5% rate.

- \* *Pre-mixable*
- \* *Conventional fire service eductors*
- \* *Portable & apparatus mounted proportioning units*
- \* *Compressed Air Foam Systems*
- \* *Low, medium and high expansion foam nozzles*
- \* *Aerial applications*
- \* *Non-aspirated delivery devices*

### RECOMMENDED PROPORTIONING AND MIX RATIOS

**In-line and By-pass Eductors:** 0.5% to 1.0% while maintaining the manufacturers recommended intake pressures and hose lay length requirements. 5 to 10 gallons of concentrate to 1,000 gallons of water (5 to 10 liters of concentrate to 1,000 liters of water).

**Proportioning Systems:** 0.1% to 0.5% as per the manufacturer's recommendations. 1 to 5 gallons of concentrate to 1,000 gallons of water (1 to 5 liters of concentrate to 1,000 liters of water).

**Compressed Air Foam Systems:** 0.1% to 0.5% as per the manufacturer's recommendations. 1 to 5 gallons of concentrate to 1,000 gallons of water (1 to 5 liters of concentrate to 1,000 liters of water).

**Batch Mixing:** Mix at 0.25% to 0.5%. 2.5 to 5 gallons of foam concentrate for every 1,000 gallons of water (2.5 to 5 liters of concentrate to 1,000 liters of water).

**Aerial Applications:** 0.1% to 0.5%. 1 to 5 gallons of concentrate to 1,000 gallons of water (1 to 5 liters of concentrate to 1,000 liters of water).

### ENVIRONMENTAL DATA

The **Blackout Class A** foam formulation is comprised only of non-reportable constituents which is a revolutionary new chemistry that provides the fire protection industry with the safest firefighting foam concentrate available for the environment and firefighters. This technological and chemical breakthrough relieves the end user of the liability of burdensome mandatory reporting procedures for storage and use.

**Blackout Class A** foam does not contain any reportable quantities of hazardous materials as defined in CFR 1910.120 SARA Title 111, Sections 311-313; is not considered a Hazardous Substance under CERCLA, 40 CFR 302.4; a Hazardous Waste under RCRA, 40 CFR 261 and does not contain any chemicals currently listed as carcinogens or reproductive toxins under California Proposition 65. **Blackout Class A** foam is classified as a biodegradable product which poses minimal impact on the environment and exhibits low toxicity to marine organisms. As with any firefighting operation, prudent containment procedures should prevent contaminated fuels and the product from entering aquifers, surface bodies of water and storm drains. With notice, **Blackout Class A** foam can be treated in conventional biological sewage treatment systems. Always confer with the appropriate regulatory authorities for specific information relating to discharge and disposal requirements. Extensive testing has demonstrated negative results for acute oral toxicity and primary skin irritation. Care should always be taken to afford the user eye protection to guard against splashing. Additional safety information is contained in the Material Safety Data Sheet.

### COMPATIBILITY INFORMATION

**Blackout Class A** foam is effective in either fresh or salt water. The water quality, whether hard or soft, does not affect the foam concentrate's performance. **Blackout Class A** foam is not intended as a primary extinguishing agents for Class B hydrocarbon fuels or fuels having low water solubility.

### TYPICAL PHYSICAL PROPERTIES

Appearance: Clear light yellow liquid  
Specific Gravity @ 60° F (20° C): 1.01  
pH Range: 7.5 - 8.0  
Minimum Storage Temperature: 28° F (-1° C)  
Maximum Storage Temperature: 120° F (49° C)

### STORAGE AND INSPECTION PROCEDURES

**Blackout Class A** foam is best stored in its original container or in tanks and containers that have been designed for foam concentrate storage. Storage containers and tanks should be constructed in such a manner as to prohibit free air exchange to prevent product evaporation. **Blackout Class A** foam is intended for use at temperatures between 28° F (-1° C) and 120° F (49° C). The performance of **Blackout Class A** foam is not affected by freezing and thawing. If frozen, simple thawing will render product usable. Care should be taken to avoid contamination of the product. **Blackout Class A** foam is intended for mixing with other types of foam concentrates for long-term storage. Extensive testing has determined that compatibility exists between competitor's foam concentrates and **Blackout Class A** foam. Generally, foams of the same class and type are compatible for long term mixing and side-by-side use at emergency incidents. The National Fire Protection Association (NFPA) and several regulatory agencies recommend inspection and testing of firefighting foams at 12 month intervals.

### CONTAINER & SHIPPING SPECIFICATIONS

**Blackout Class A** foam is supplied in DOT approved 5-gallon polyethylene square pails and round drums. Shipments of **Blackout Class A** foam is non-regulated and does not require specialized handling, packaging or reporting requirements. Shipments in 275, 350 and 550-gallon reusable containers and bulk orders are available upon request.

#### CONTAINER

5-Gallon Pails (1 8.9 liters)  
55-Gallon Drums (207.9 liters)  
Bulk

#### SHIPPING WEIGHT

45 tbs. (20.4 kg)  
495 tbs. (224.5 kg)  
8.40 lbs./gal. (1.01 kg/l)

#### PART NUMBER

1046-1  
1046-2  
1046-A

### CUBIC MEASUREMENTS

5 - Gallon Pail (18.9 liters) 1.08 cu. ft. (.0305 m<sup>3</sup>)  
55 - Gallon Drum (208.1 liters) 11.33 cu. ft. (.3208 m<sup>3</sup>)

**IMPORTANT NOTICE:** To the best of our knowledge, the information contained herein is true and accurate. The manufacturer warrants that this product conforms to the technical specifications provided that this product is maintained in its original container and stored at the temperatures indicated in the instructions for use. The manufacturer's only obligation shall be to replace such quantity of the product proven to be defective. Before using, user shall determine the suitability of the product for its intended use, and user assumes all risks and liability whatsoever in connection therewith. NEITHER SELLER NOR MANUFACTURER SHALL BE LIABLE IN EITHER TORT OR IN CONTRACT FOR ANY LOSS OR DAMAGE, DIRECT, INDIRECT, OR CONSEQUENTIAL, ARISING OUT OF THE INABILITY TO USE THIS PRODUCT.

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