



# Universal Ultra AR-AFFF Foam

## MATERIAL SAFETY DATA SHEET

Emergency # (800) 424-9300

4251 Seminole Trail

Charlottesville, VA 22911 (434) 973-4361

Date: July, 2002

### Section 1. CHEMICAL PRODUCT/COMPANY IDENTIFICATION

#### Material Identification

Product: Universal Ultra AR-AFFF Foam Extinguisher Charge

Synonyms: Alcohol Resistant Aqueous Film Forming Foam

CAS No: Mixture - No single CAS # applicable

#### Company Identification

Badger Fire Protection

4251 Seminole Trail

Charlottesville, VA 22911 (434) 973-4361

### Section 2. COMPOSITION / INFORMATION ON INGREDIENTS

Components	CAS Number
Water	7732-18-5
(2-Methoxymethylethoxy)Propanol	34590-94-8
Proprietary mixture of synthetic detergents	No single CAS # available
Fluoroalkyl Surfactant	Confidential
Polysaccharide	11138-66-2

### Section 3. HAZARDS IDENTIFICATION

#### Potential Health Effects

##### **Inhalation**

Not a hazard in normal industrial use.

##### **Skin Contact**

Contact with liquid may cause moderate irritation or dermatitis due to removal of oils from the skin.

##### **Eye Contact**

Product is an eye irritant.

##### **Ingestion**

No data available.

##### **Additional Health Effects**

Existing eye or skin sensitivity may be aggravated by exposure.

##### **Carcinogenicity Information**

No data available.

### Section 4. FIRST AID MEASURES

##### **Inhalation**

No specific treatment is necessary since this material is not likely to be hazardous by inhalation. If exposed to excessive levels of airborne mists, remove to fresh air. Seek medical attention if effects occur.

##### **Skin Contact**

In case of skin contact, immediately flush skin with copious amounts of water for at least 15 minutes. Launder clothing before re-use. If irritation occurs, obtain medical attention.

##### **Eye Contact**

In case of eye contact, immediately flush eyes with copious amounts of water for 15-30 minutes. Retract eyelids often to ensure thorough rinsing. Contact a physician if irritation persists.

##### **Ingestion**

If swallowed, give victim plenty of milk or water to drink. Do not induce vomiting. Never administer anything by mouth to an unconscious person. Seek medical attention.

## Section 5. FIRE FIGHTING MEASURES

### Flammable Properties

Flash Point – Not applicable

### Fire and Explosion Hazards

Avoid contact with water reactive materials, burning metals and electrically energized equipment.

### Extinguishing Media

Product is an extinguishing media. Use media appropriate for surrounding materials.

### Special Fire Fighting Instructions

This product will produce foam when mixed with water.

## Section 6. ACCIDENTAL RELEASE MEASURES

### Safeguards (Personnel)

**NOTE:** Review FIRE FIGHTING MEASURES and HANDLING (Personnel) sections before proceeding with clean-up. Use appropriate Personal Protective Equipment during clean-up.

### Accidental Release Measures

Stop flow if possible. Use appropriate protective equipment during clean up. For small volume releases, collect spilled concentrate with absorbent material; place in approved container. For large volume releases, contain and collect for use where possible. Flush area with water until it no longer foams. Exercise caution, surfaces may be slippery. Prevent discharge of concentrate to waterways. Disposal should be made in accordance with federal, state and local regulations.

## Section 7. HANDLING AND STORAGE

### Handling (Personnel)

Avoid contact with eyes, skin or clothing. Avoid ingestion or inhalation. Rinse skin and eyes thoroughly in case of contact. Review HAZARDS and FIRST AID sections.

### Storage

Recommended storage environment is between 35°F (2°C) and 120°F (49°C). Store product in original shipping container or tanks designed for product storage.

## Section 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Engineering Controls

Special ventilation is not required.

### Personal Protective Equipment

#### Respiratory

Recommended exposure limits (OSHA-PEL and ACGIH-TLV) have not been determined for this material. The need for respiratory protection should be evaluated by a qualified health specialist.

#### Protective Clothing

Rubber or PVC gloves recommended.

#### Eye Protection

Safety glasses, face shield or chemical splash goggles must be worn when possibility exists for eye contact. Contact lenses should not be worn. Eye wash facilities are recommended.

#### Other Hygienic Practices

Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet facilities. Promptly remove soiled clothing and wash thoroughly before re-use.

### Exposure Guidelines

#### Exposure Limits

(2-Methoxymethylethoxy)Propanol (34590-94-8)

##### PEL(OSHA)

100 ppm, hr. TWA Skin

150 ppm, 15 min. STEL Skin

##### TLV (ACGIH)

100 ppm, 8 hr. TWA Skin

150 ppm, 15 min. STEL Skin

## Section 9. PHYSICAL AND CHEMICAL PROPERTIES

### Physical Data

Boiling Point:	Not applicable
Vapor Pressure:	Not applicable
Vapor Density:	Not applicable
Melting Point:	Not applicable
Evaporation Rate:	<1 (Butyl Acetate = 1.0)
Solubility in Water:	100%
pH:	8.5
Specific Gravity:	1.015@ 25°C
Odor:	Mild, pleasant
Form:	Viscous liquid
Color:	Yellow

## Section 10. STABILITY AND REACTIVITY

### Chemical Stability

Stable.

### Incompatibility, Materials to Avoid

Avoid use of product on burning metals, electrically-energized equipment and contact with water reactive materials.

### Polymerization

Will not occur.

## Section 11. TOXICOLOGICAL INFORMATION

This product has not been tested as a whole for acute oral and inhalation toxicity, primary eye irritation, or primary skin irritation.

## Section 12. ECOLOGICAL INFORMATION

### Ecotoxicological Information Aquatic Toxicity

No data available.

### Environmental Fate

BOD <sub>5</sub>	No data available
COD	No data available

## Section 13. DISPOSAL CONSIDERATIONS

**Do not discharge into biological sewer treatment systems without prior approval. Specific concerns may be high BOD load and foaming tendency. Dilution will reduce BOD and COD factors proportionately. Low dosage flow rate or antifoaming agents acceptable to the treatment plant may be helpful. Do not flush to waterways. Disposal should be made in accordance with federal, state and local regulations.**

NOTE: As a service to our customers Badger's agent supplier, National Foam has approvals in place with disposal facilities throughout the U.S. for waste water treatment of our foam liquid concentrates and foam solutions. If required, National Foam, Inc. can also provide information on the disposal of drums used for shipping our concentrates. Please contact National Foam's Risk Management Administrator at (610) 363-1400 for additional information.

## Section 14. TRANSPORTATION INFORMATION

### Shipping Information

Proper Shipping Name: Fire Extinguisher Charges or Compounds N.O.I., Class 60  
National Motor Freight Code: 69160 Sub 0  
Hazard Class: None  
UN Number: None

## Section 15. REGULATORY INFORMATION

### U.S. Federal Regulations

#### **Toxic Substances Control Act (TSCA)**

All components of this product are listed in the TSCA inventory.

#### **Superfund Amendments and Reauthorization Act of 1986 (SARA), Title III**

##### **Section 302/304**

There are no components of this material with known CAS numbers which are on the Extremely Hazardous Substances (EHS) list.

##### **Section 311 & 312**

Based on available information, this material contains the following components which are classified as the following health and/or physical hazards according to Section 311 & 312:

(2-Methoxymethylethoxy)Propanol 34590-94-8

##### **Section 313**

This material does not contain any chemical components which are subject to Section 313 reporting requirements.

#### **COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, AND LIABILITY ACT (CERCLA)**

This material does not contain any chemical components which are subject to the reporting requirements of CERCLA.

#### **OTHER REGULATORY INFORMATION**

None

#### **STATE REGULATIONS**

#### **PENNSYLVANIA RIGHT-TO-KNOW HAZARDOUS SUBSTANCES LIST**

PA Hazardous Substances present at levels greater than 1%:

(2-Methoxymethylethoxy)Propanol 34590-94-8

## Section 16. OTHER INFORMATION

#### **NFPA Rating**

Health 1  
Flammability 0  
Reactivity 0

## ADDITIONAL INFORMATION

#### **Revision Summary**

The information contained herein is furnished without warranty either expressed or implied. This data sheet is not a part of any contract of sale. The information contained herein is believed to be correct or is obtained from sources believed to be generally reliable. However, it is the responsibility of the user of these materials to investigate, understand and comply with federal, state and local guidelines and procedures for safe handling and use of these materials. Badger Fire Protection shall not be liable for any loss or damage arising directly or indirectly from the use of this product and Badger Fire Protection assumes no obligation or liabilities for reliance on the information contained herein or omissions herefrom.