

# DATASHEET ENGINEERING

## FIRE

### **EXTINGUISHERS**



### MATERIAL SAFETY DATA SHEET

Universal Ultra AR-AFFF Solution (Fire Extinguishing Agent)

### IDENTIFICATION OF THE SUBSTANCE/PREPARATIONS AND OF THE COMPANY UNDERTAKING

Universal Ultra AR-AFFF Solution (Fire Extinguishing Agent) **Product Name** 

Other Trade Names Alcohol Resistant Aqueous Film Forming Foam

**Product Description** Fire Extinguishing Agent Manufacturer/Supplier **Badger Fire Protection** 

Safety Data Sheet according to EC directive 2001/59/EC and OSHA's Hazcom Standard (29 CFR 1910.1200)

### HAZARDS IDENTIFICATION

#### **EU Main Hazards** Non Hazardous Liquid

### **Routes of Entry**

- Eye contact - Inhalation - Skin contact

### Carcinogenic Status

Not considered carcinogenic by NTP, IARC, and OSHA.

### **Target Organs** Skin - Eye

### Health Effects - Eyes

Contact for short periods of time may cause irritation.

### Health Effects - Skin

Contact may cause mild irritation.

### Health Effects - Ingestion

Ingestion is not an expected route of exposure.

### Health Effects - Inhalation

Inhalation is not an expected route of exposure during normal industrial use.

### COMPOSITION/INFORMATION ON INGREDIENTS

Component Name Water	CAS#/Codes 7732-18-5 EC#2317912	Concentration >95%	R Phrases None	EU Classification None
Synthetic Detergents	Proprietary	<1%	None	None
Polysaccharide	11138-66-2 EC#2343942	<1%	None	None
Fluoroalkyl Surfactant	Proprietary	<1%	None	None



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### 4. FIRST AID MEASURES

#### Eves

Immediately flood the eye with plenty of water for at least 15 minutes, holding the eye open. Obtain medical attention if soreness or redness persists.

#### Skin

Wash affected area with soap and water. Obtain medical attention if irritation persists.

#### Ingestion

Dilute by drinking large quantities of water and obtain medical attention.

#### Inhalation

Move victim to fresh air. Obtain medical attention immediately for any breathing difficulty.

#### Advice to Physicians

Treat symptomatically.

### 5. FIRE - FIGHTING MEASURES

### **Extinguishing Media**

This preparation is used as an extinguishing agent and therefore is not a problem when trying to control a blaze. Use extinguishing agent appropriate to other materials involved. Keep pressurized extinguishers and surroundings cool with water spray as they may rupture or burst in the heat of a fire.

### Unusual Fire and Explosion Hazards

Pressurized containers may explode in heat of fire.

### Protective Equipment for Fire-Fighting

Wear full protective clothing and self-contained breathing apparatus as appropriate for specific fire conditions.

### 6. ACCIDENTAL RELEASE MEASURES

Contain and absorb using appropriate inert material. Transfer into suitable containers for disposal. Prevent skin and eye contact. Wear appropriate protective equipment. Prevent the material from entering drains or watercourses.

### HANDLING AND STORAGE

Pressurized extinguishers should be properly stored and secured to prevent falling or being knocked over. Do not drag, slide or roll extinguishers. Do not drop extinguishers or permit them to strike against each other. Never apply flame or localized heat directly to any part of the extinguisher or plastic container. Store pressurized extinguishers and plastic containers away from high heat sources. Storage area should be: - cool - dry - well ventilated - under cover - out of direct sunlight

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Occupational Exposure Standards

Occupational exposure limits are listed below, if they exist.

### **Engineering Control Measures**

Use with adequate ventilation. There should be local procedures for the selection, training, inspection and maintenance of this equipment. When used in large volumes, use local exhaust ventilation.



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### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Respiratory Protection** 

Not normally required.

**Hand Protection** 

Not normally needed when used as a portable fire extinguisher. Use gloves if irritation occurs.

Eye Protection

Chemical goggles or safety glasses with side shields.

**Body Protection** 

Normal work wear.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Liquid
Color Pale Yellow
Odor Mild, pleasant
pH 7 - 8
Specific Gravity ~ 1.0

Specific Gravity ~ 1.0
Boiling Range/Point (°F) ~ 212
Flash Point (PMCC) (°C/F) Not Fl

Flash Point (PMCC) ( ℃/F) Not Flammable
Solubility in Water Soluble
Vapor Density (Air = 1) Not applicable
Vapor Pressure Not applicable
Evaporation Rate Slower than ether

### 10. STABILITY AND REACTIVITY

Stability

Stable under normal conditions.

**Conditions to Avoid** 

- Heat - High temperatures - Exposure to direct sunlight

Materials to Avoid

- water reactive materials - burning metals - electronically energized equipment

**Hazardous Polymerization** 

Will not occur.

**Hazardous Decomposition Products** 

- oxides of carbon

### 11. TOXICOLOGICAL INFORMATION

**Acute Toxicity** 

Low order of acute toxicity.

Chronic Toxicity/Carcinogenicity

This product is not expected to cause long term adverse health effects.



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### 11. TOXICOLOGICAL INFORMATION

Genotoxicity

This product is not expected to cause any mutagenic effects.

Reproductive/Developmental Toxicity

This product is not expected to cause adverse reproductive effects.

### 12. ECOLOGICAL INFORMATION

Mobility

No relevant studies identified.

Persistence/Degradability

No relevant studies identified.

**Bio-accumulation** 

No relevant studies identified.

**Ecotoxicity** 

No relevant studies identified.

### 13. DISPOSAL CONSIDERATIONS

Dispose of container in accordance with all applicable local and national regulations. Do not cut, puncture or weld on or near to the container. No harm to the environment is expected from this preparation.

### 14. TRANSPORT INFORMATION

DOT CFR 172.101 Data

UN Proper Shipping Name

UN Class

UN Number

UN Packaging Group

Not regulated

Not regulated

None

None

### 15. REGULATORY INFORMATION

### **EU Label Information**

Classification and labelling have been performed according to EU directives 67/548/EEC and 99/45/EC including amendments(2001/60/EC and 2006/8/EC)

EU Hazard Symbol and Indication of Danger.

This preparation is not classified as dangerous.

R phrases

None

S phrases

None.

### US REGULATIONS (Federal, State) and INTERNATIONAL CHEMICAL REGISTRATION LAWS

**TSCA Listing** 

This product contains ingredients that are listed on or exempt from listing on the EPA Toxic Substance Control Act Chemical Substance Inventory.



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### 15. REGULATORY INFORMATION

#### **EINECS Listing**

All ingredients in this product are listed on the European Inventory of Existing Commercial Chemical Substances (EINECS) or are exempt from listing.

#### DSL/NDSL (Canadian) Listing

All ingredients in this product are listed on the Domestic Substance List (DSL) or the Non-Domestic Substance List (NDSL) or are exempt from listing.

### WHMIS Classification

Not a WHMIS controlled product.

This product was classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations and the MSDS contains all the information required by these regulations.

#### MA Right To Know Law

All components have been checked for inclusion on the Massachusetts Substance List (MSL). Those components present at or above the de minimus concentration include: none

### PA Right To Know Law

This product contains the following chemicals found on the Pennsylvania Hazardous Substance List:

### NJ Right To Know Law

This product contains the following chemicals found on the NJ Right To Know Hazardous Substance List: none

### California Proposition 65

This product does not contain materials which the State of California has found to cause cancer, birth defects or other reproductive harm.

### SARA Title III Sect. 302 (EHS)

This product does not contain any chemicals subject to SARA Title III Section 302.

### SARA Title III Sect. 304

This product does not contain any chemicals subject to SARA Title III Section 304.

### SARA Title III Sect. 311/312 Categorization

None

### SARA Title III Sect. 313

This product does not contain any chemicals that are listed in Section 313 at or above de minimis concentrations.

### 16. OTHER INFORMATION

### **NFPA Ratings**

NFPA Code for Flormability 0

NFPA Code for Flammability - 0

NFPA Code for Reactivity - 0

NFPA Code for Special Hazards - None

### **HMIS Ratings**

HMIS Code for Health - 1

HMIS Code for Flammability - 0

HMIS Code for Reactivity - 0

HMIS Code for Personal Protection - See Section 8



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### 16. OTHER INFORMATION

#### Abbreviations

N/A: Denotes no applicable information found or available

CAS#: Chemical Abstracts Service Number

ACGIH: American Conference of Governmental Industrial Hygienists

OSHA: Occupational Safety and Health Administration

TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
STEL: Short Term Exposure Limit
NTP: National Toxicology Program

IARC: International Agency for Research on Cancer

R: Risk S: Safety

Prepared By: EnviroNet LLC.

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