

## SAFETY DATA SHEET

### FirstRESPONSE AFFF FOAM FIRE EXTINGUISHER

#### 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

##### Product Name

Aqueous Film Forming Foam Concentrate

##### Product Use

The intended or recommended use of this preparation is as a Fire Extinguishing agent.

##### Manufacturer / Supplier

Fire & Safety WA

96 Furniss Road, Landsdale, WA, 6065

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#### 2. HAZARDS IDENTIFICATIONS

##### Potential Health Effects

##### Inhalation

Vapours are minimal at room temperature. If product is heated or sprayed as an aerosol, airborne material may cause respiratory irritation.

##### Skin Contact

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

##### Eye Contact

Product is eye irritant.

##### Ingestion

Not a hazard in normal industrial use. Small amounts swallowed during normal handling operations are not likely to cause injury; swallowing large amounts may cause injury or irritation.

##### Additional Health Effects

Existing eye or skin sensitive maybe aggravated by exposure.

##### Carcinogenicity Information

No data available.

#### 3. CONFIRMATION / INFORMATION ON INGREDIENTS

##### Water

CAS Number 7732-18-5

##### Synthetic Detergents Proprietary Mixture

No single CAS number applicable

##### Diethylene Glycol Monobutyl Ether

CAS Number 112-34-5

##### Fluoroalkyl Surfactant

Confidential

#### 4. FIRE 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 aerosol mists, remove to fresh air. Seek medical attention if effects occur.

##### Skin Contact

In case of skin contact, wash off with water or shower. Launder clothing before reuse.

##### Eye Contact

In case of eye contact, flush eyes promptly with water for 15 minutes. Retract eyelids often to ensure thorough rinsing. Consult a physician if irritation persists.

##### Ingestion

Swallowing less than 30 millilitres is not expected to cause significant harm. For larger amounts, do not induce vomiting. Give milk or water. Never give anything by mouth to an unconscious person. Seek medical attention.

#### 5. FIRE FIGHTING MEASURES

##### Flammable Properties

Flash Point - Not applicable.

##### Fire and Explosion Hazards

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

## 6. ACCIDENTAL RELEASE MEASURES

### Safeguards (Personnel)

Use appropriate Personal Protective Equipment during clean-up.

### Accidental release measures Concentrate

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.

### Foam/ Foam Solution

See above. Flush with water. Prevent discharge of foam/foam solution to waterways. Do not discharge into biological sewer treatment systems without prior approval. Disposal should be made in accordance with federal, state and local regulations.

## 7. HANDLING AND STORAGE

### Handling (Personnel)

Avoid contact with eyes, skin or clothing. Avoid ingestions or inhalations.

Rinse skin and eyes thoroughly in case of contact. Review HAZARDS and FIRST AID sections.

### Storage

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

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

### Engineering Controls

Special ventilation is not required.

## Personal Protective Equipment Respiratory

Recommended exposure limits 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.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Boiling Point</b>	Not applicable
<b>Vapor Pressure</b>	Not applicable
<b>Vapor Density</b>	Not applicable
<b>Melting Point</b>	Not applicable
<b>Evaporation Rate</b>	<1(Butyl Acetate = 1.0)
<b>Solubility in Water</b>	100%
<b>pH</b>	8.0
<b>Specific Gravity</b>	1.04 @ 25°C
<b>Odour</b>	Mild, pleasant
<b>Form</b>	Liquid
<b>Colour</b>	Straw yellow

## 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.

**Polymerisation** Will not occur.

## 11. ECOLOGICAL INFORMATION

### Mammalian Toxicity Ingestion

This material was not toxic when administered.

### Eye

Testing indicates this material is a primary eye irritant when tested undiluted.

### Skin

Testing indicates this material is not a primary skin irritant when tested undiluted.

### Inhalation

No data available at this time.

### Carcinogenic, Development, Reproductive, Mutagenic, Effects

No data available on this material.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicological Information Aquatic Toxicity

96hr. Flow Through LC50 for Fathead Minnows (*pimephales promelas*) is reported to be greater than 1000ppm.

## 13. DISPOSAL CONSIDERATIONS

### Disposal Consideration

FirstRESPONSE AFFF is not a RCRA-listed waste or hazardous waste as characterized by 40 CFR 261.

However, state and local requirements for waste disposal may be more restrictive or otherwise different from federal regulations. Therefore, applicable local and state regulatory agencies should be contacted regarding disposal of waste foam concentrate or foam/foam solution.

### Concentrate

Do not discharge into biological sewer treatment systems without prior approvals. Specific concerns are high BOD load and foaming tendency. 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.

### Foam/Foam Solution

AFFF solution can be treated by waste water treatment facilities. Discharge into biological sewer treatment facilities may be done with prior approval. Specific concerns are high BOD load.

Dilution will be reduced BOD and COD factors proportionately.

## 13. DISPOSAL CONSIDERATIONS

No harm to the environment is expected from this preparation. Dispose of in compliance with national, regional and local provisions that may be in force.

## 14. TRANSPORT INFORMATION

UN Number	1044
ADG Class	2.2
Packing Group	Not applicable
Proper Shipping Name	FIRE EXTINGUISHERS with compressed or liquified gas

### HAZCHEM

Emergency Action Code 2TE

Avoid Transport on vehicles where the load space is not separated from the driver's compartment. Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency.

## 15. REGULATORY INFORMATION

### Toxic Substances Control Act (TSCA)

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

### Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)

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

## 16. OTHER INFORMATION

Key: Severe Hazard = 4, Serious Hazard = 3, Moderate Hazard = 2, Minimal Hazard = 1

Health	1
Flammability	0
Reactivity	0

### **DISCLAIMER OF LIABILITY**

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**END SDS**