Safety Data Sheet



## **SECTION 1: Product and company identification**

Product name : Fire Fighting Foam

Use of the substance/mixture : AFFF Product code : 0697

**Total Solutions** Company P.O. Box 240014

Milwaukee, WI 53224 - USA

T (414) 354-6417

: Chemtrec: (800) 424-9300 **Emergency number** 

#### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

#### **GHS-US** classification

Skin Irrit. 2 H315 Eye Irrit. 2 H319 STOT SE 1 H370 STOT RE 2 H373

#### Label elements

#### **GHS-US labeling**

Hazard pictograms (GHS-US)





GHS08

GHS07

Signal word (GHS-US) : Danger

Hazard statements (GHS-US) Causes skin irritation

Causes serious eye irritation Causes damage to organs

May cause damage to organs through prolonged or repeated exposure

Precautionary statements (GHS-US)

: Do not breathe mist, spray. Wash thoroughly after handling

Do not eat, drink or smoke when using this product. Wear eye protection, protective clothing, protective gloves.

If on skin: Wash with plenty of water

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing If exposed: Call a poison center/doctor Get medical advice/attention if you feel unwell.

Specific treatment (see First aid measures on this label) If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

Store locked up.

Dispose of contents/container to comply with local/regional/national/international regulations

## 2.3. Other hazards

No additional information available

## 2.4. Unknown acute toxicity (GHS US)

Not applicable

#### **SECTION 3: Composition/Information on ingredients**

## 3.1. Substances

Not applicable

Full text of H-phrases: see section 16

#### 3.2. Mixtures

Name	Product identifier	%	GHS-US classification
diethylene glycol monobutyl ether	(CAS-No.) 112-34-5	7-13	Eye Irrit. 2A, H319

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Name	Product identifier	%	GHS-US classification
Sodium (C14-16) olefin sulfonate	(CAS-No.) 68439-57-6	7-13	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319
ethylene glycol	(CAS-No.) 107-21-1	3-7	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 STOT SE 1, H370 STOT RE 2, H373
Cocamidopropyl Hydroxy Sultaine	(CAS-No.) 68139-30-0	1-5	Skin Irrit. 2, H315 Eye Irrit. 2A, H319
C12-13 ALCOHOLS	(CAS-No.) 75782-86-4	0.5-1.5	Eye Irrit. 2A, H319

A specific chemical identity and/or percentage of composition has been withheld as a trade secret. Any concentration shown as a range is to protect confidentiality or is due to batch variation.

### **SECTION 4: First aid measures**

4.1. Description of first aid measures

First-aid measures general : If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : Remove the victim into fresh air.

First-aid measures after skin contact : Rinse skin with water/shower. Wash contaminated clothing before reuse. If skin irritation occurs: Get

medical advice/attention.

First-aid measures after eye contact : Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get

medical advice/attention.

First-aid measures after ingestion : Rinse mouth with water. Do NOT induce vomiting. Call a POISON CENTER or doctor/physician if

you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects : Causes skin irritation. Causes serious eye irritation. May cause damage to organs through prolonged

or repeated exposure. Causes damage to organs.

Symptoms/effects after inhalation : None under normal use.

Symptoms/effects after skin contact : Causes skin irritation.

Symptoms/effects after eye contact : Causes serious eye irritation.

Symptoms/effects after ingestion : Gastrointestinal complaints.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

### **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

Suitable extinguishing media : Adapt extinguishing media to the environment.

#### 5.2. Special hazards arising from the substance or mixture

Reactivity : The product is non-reactive under normal conditions of use, storage and transport. Thermal

decomposition may produce : carbon oxides.

5.3. Advice for firefighters

Firefighting instructions : Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed

containers. Take account of environmentally hazardous firefighting water.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

#### **SECTION 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Isolate from fire, if possible, without unnecessary risk.

6.1.1. For non-emergency personnel

Protective equipment : Protective goggles. Gloves. Protective clothing.

Emergency procedures : Evacuate unnecessary personnel. Avoid contact with skin, eyes and clothing. Ventilate spillage area.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Stop leak if safe to do so. Stop release. Ventilate area.

#### 6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters.

#### 6.3. Methods and material for containment and cleaning up

For containment : Contain released product, pump into suitable containers.

Methods for cleaning up : This material and its container must be disposed of in a safe way, and as per local legislation.

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#### 6.4. Reference to other sections

No additional information available

#### **SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

Precautions for safe handling : Comply with the legal requirements. Do not handle until all safety precautions have been read

and understood. Use personal protective equipment as required. Do not eat, drink or smoke

when using this product. Do not get in eyes, on skin, or on clothing.

Hygiene measures : Wash thoroughly after handling. Wash contaminated clothing before reuse.

#### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Comply with applicable regulations.

Storage conditions : Keep container closed when not in use.

Incompatible products : Strong acids.

Storage area : Meet the legal requirements. Store in a cool area. Store in a dry area.

Special rules on packaging : meet the legal requirements.

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

ethylene glycol (107-21-1)		
ACGIH	ACGIH TWA (ppm)	25 ppm
ACGIH	ACGIH STEL (mg/m³)	10 mg/m³
ACGIH	ACGIH STEL (ppm)	50 ppm
ACGIH	Remark (ACGIH)	Kidney dam; URT & eye irr
diethylene glycol monobutyl ether (112-34-5)		
ACGIH	ACGIH TWA (ppm)	10 ppm

## 8.2. Exposure controls

Appropriate engineering controls : Emergency eye wash fountain with clean water.

Personal protective equipment : Use appropriate personal protective equipment when risk assessment indicates this is necessary.

Gloves. Protective clothing. Safety glasses.







#### **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Physical state : Liquid

Appearance : clear. slight yellow. Liquid.

Odor : mild

Odor threshold : No data available

pH : 9 - 10

: No data available Melting point Freezing point : No data available Boiling point No data available Flash point > 200 °F Closed Cup Relative evaporation rate (butyl acetate=1) : No data available Flammability (solid, gas) No data available **Explosion limits** : No data available Explosive properties No data available Oxidizing properties No data available Vapor pressure No data available Relative density No data available Relative vapor density at 20 °C : No data available

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TOTAL SOLUTIONS

Specific gravity / density : 1.03 g/ml Solubility : Soluble in water. Log Pow No data available Log Kow : No data available Auto-ignition temperature No data available Decomposition temperature No data available Viscosity No data available Viscosity, kinematic No data available Viscosity, dynamic : No data available

VOC content : < 0.1 %

## **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport. Thermal decomposition may produce: carbon oxides.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

Refer to section 10.1 on Reactivity.

#### 10.4. Conditions to avoid

No additional information available

#### 10.5. Incompatible materials

Acids.

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

#### **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

Acute toxicity : Not classified

C12-13 ALCOHOLS (75782-86-4)	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
ethylene glycol (107-21-1)	
LD50 oral rat	4700 mg/kg
LD50 dermal rabbit	10626 mg/kg
ATE CLP (oral)	500 mg/kg body weight
ATE CLP (dermal)	10626 mg/kg body weight

Skin corrosion/irritation : Causes skin irritation.

pH: 9 - 10

Serious eye damage/irritation : Causes serious eye irritation.

pH: 9 - 10

Respiratory or skin sensitization : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity : Not classified

Specific target organ toxicity – single exposure : Causes damage to organs.

Specific target organ toxicity – repeated : May cause damage to organs through prolonged or repeated exposure.

exposure

Aspiration hazard : Not classified

Symptoms/effects after inhalation : None under normal use.
Symptoms/effects after skin contact : Causes skin irritation.
Symptoms/effects after eye contact : Causes serious eye irritation.

Symptoms/effects after ingestion : Gastrointestinal complaints.

Likely routes of exposure : Skin and eye contact

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## **SECTION 12: Ecological information**

#### 12.1. Toxicity

No additional information available

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

No additional information available

#### **SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

Product/Packaging disposal

: Dispose in a safe manner in accordance with local/national regulations.

recommendations

## **SECTION 14: Transport information**

### **Department of Transportation (DOT)**

In accordance with DOT: Not regulated for transport

**Additional information** 

Other information : No supplementary information available.

ADR

No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

#### **SECTION 15: Regulatory information**

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

ethylene glycol CAS-No. 107-21-1 3-7%

ethylene glycol (107-21-1)	
Subject to reporting requirements of United State	s SARA Section 313
CERCLA RQ	5000 lb



This product can expose you to Formaldehyde, which is known to the State of California to cause cancer, and ethylene glycol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

## **SECTION 16: Other information**

Training advice : Normal use of this product shall imply use in accordance with the instructions on the packaging.

Full text of H-phrases:

H302	Harmful if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation
H370	Causes damage to organs
H373	May cause damage to organs through prolonged or repeated exposure

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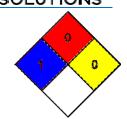
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NFPA health hazard : 1 - Materials that, under emergency conditions, can cause significant irritation.

NFPA fire hazard : 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible

materials such as concrete, stone, and sand.

NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire conditions.



### Prepared by: Technical Department

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. No warranty is expressed or implied regarding the accuracy of this data or the results obtained from the use thereof. Our company assumes no responsibility for personal injury or property damage to the vendee, users or third parties caused by the material. Such vendees or users assume all risks associated with the use of this material.

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