



# ANGUS FIRE

## SAFETY DATA SHEET – AMS#185 Niagara<sup>®C6</sup> 1-3 Alcohol Resistant Film Forming Fluoroprotein Foam Concentrate

### 1. IDENTIFICATION

<b>Product Name</b>	Niagara <sup>C6</sup> 1-3 Alcohol Resistant Film Forming Fluoroprotein Foam Concentrate
<b>Recommended use of the chemical and restrictions on use</b>	
<b>Identified uses</b>	Firefighting Foam Concentrate
<b>Restrictions on Use</b>	See product data sheet
<b>Company Identification</b>	Angus Fire 141 Junny Street Angier, NC 27501-8625 (919) 659-6151 Infotrac at (800) 535-5053
<b>Customer Information Number</b>	
<b>Emergency Telephone Number</b>	
<b>Issue Date</b>	March 10, 2017
<b>Supersedes Date</b>	This is the first issue.

*Safety Data Sheet prepared in accordance with OSHA's Hazard Communication Standard (29 CFR 1910.1200) and the Globally Harmonized System of Classification and Labelling of Chemicals (GHS)*

### 2. HAZARD IDENTIFICATION

#### Hazard Classification

Skin Sensitization - Category 1

#### Label Elements

Hazard Symbols



Signal Word: Warning

#### Hazard Statements

May cause an allergic skin reaction.

#### Precautionary Statements

##### Prevention

Wear eye protection, protective gloves, and protective clothing.  
Avoid breathing mist, vapors or spray.  
Contaminated work clothing must not be allowed out of the workplace.

##### Response

If on skin: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

##### Storage

None

##### Disposal

Dispose of contents/container in accordance with local regulation.

##### Other Hazards

None identified.



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### 2. HAZARD IDENTIFICATION

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#### Specific Concentration Limits

The values listed below represent the percentages of ingredients of unknown toxicity.

Acute oral toxicity	<10%
Acute dermal toxicity	40 - 50%
Acute inhalation toxicity	40 - 50%
Acute aquatic toxicity	50 - 60%

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

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This product is a mixture.

Component	CAS Number	Concentration
Water	7732-18-5	40 - 50%
Hexylene Glycol	107-41-5	1 - <10%
Fluoroalkyl Surfactants	Proprietary	1 - 10%
Biocide	Proprietary	0.1 - <1%

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### 4. FIRST-AID MEASURES

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#### Description of necessary first-aid measures

##### Eyes

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

##### Skin

Wash skin thoroughly 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.

#### Most important symptoms/effects, acute and delayed

Aside from the information found under Description of necessary first aid measures (above) and Indication of immediate medical attention and special treatment needed, no additional symptoms and effects are anticipated.

#### Indication of immediate medical attention and special treatment needed

##### Notes to Physicians

Treat symptomatically.

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### 5. FIRE - FIGHTING MEASURES

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#### Suitable Extinguishing Media

This preparation is used as an extinguishing agent and therefore is not a problem when trying to control a fire. Use extinguishing agent appropriate to other materials involved.

#### Specific hazards arising from the chemical

None known



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## 5. FIRE - FIGHTING MEASURES

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### **Special Protective Actions for Fire-Fighters**

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

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## 6. ACCIDENTAL RELEASE MEASURES

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### **Personal precautions, protective equipment and emergency procedures**

Wear appropriate protective clothing. Prevent skin and eye contact.

### **Environmental Precautions**

Prevent foam concentrate or foam solution from entering ground water, surface water, or storm drains. Discharge and disposal of concentrate or foam solution should be made in accordance with federal, state, and local regulations.

### **Methods and materials for containment and cleaning up**

Contain and absorb using appropriate inert material and transfer into suitable containers for recovery or disposal.

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## 7. HANDLING AND STORAGE

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### **Precautions for safe handling**

Wear appropriate protective clothing. Prevent skin and eye contact.

### **Conditions for safe storage**

Store in original containers between 0°F and 120°F (-18°C and 49°C). Storage area should be: - cool - dry - well ventilated - under cover - out of direct sunlight

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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### **Control parameters**

Exposure limits are listed below, if they exist.

### **Hexylene Glycol**

ACGIH: Ceiling 25 ppm

### **Appropriate engineering controls**

Use with adequate ventilation. If this product is used in a pressurized system, there should be local procedures for the selection, training, inspection and maintenance of this equipment. When used in large volumes, use local exhaust ventilation.

### **Individual protection measures**

#### **Respiratory Protection**

Wear respiratory protection if there is a risk of exposure to high vapor concentrations, aerosols or if applied to hot surfaces. A NIOSH approved full face respirator may be worn. The specific respirator selected must be based on the airborne concentration found in the workplace and must not exceed the working limits of the respirator.



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### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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**Skin Protection**

Gloves

**Eye/Face Protection**

Chemical goggles or safety glasses with side shields.

**Body Protection**

Normal work wear.

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

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**Appearance**

<b>Physical State</b>	Liquid
<b>Color</b>	Dark brown
<b>Odor</b>	Characteristic
<b>Odor Threshold</b>	No data available
<b>pH</b>	7.0
<b>Relative Density</b>	1.16
<b>Boiling Range/Point (°C/F)</b>	No data available
<b>Melting Point (°C/F)</b>	No data available
<b>Flash Point (°C/F)</b>	Not flammable
<b>Vapor Pressure</b>	No data available
<b>Evaporation Rate (BuAc=1)</b>	No data available
<b>Solubility in Water</b>	Soluble
<b>Vapor Density (Air = 1)</b>	Not applicable
<b>VOC (%)</b>	No data available
<b>Partition coefficient (n-octanol/water)</b>	No data available
<b>Viscosity</b>	No data available
<b>Auto-ignition Temperature</b>	Not applicable
<b>Decomposition Temperature</b>	No data available
<b>Upper explosive limit</b>	Not applicable
<b>Lower explosive limit</b>	Not applicable
<b>Flammability (solid, gas)</b>	Not applicable

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### 10. STABILITY AND REACTIVITY

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**Reactivity**

No data available.

**Chemical Stability**

Stable under normal conditions.

**Possibility of hazardous reactions**

Hazardous polymerization will not occur.

**Conditions to Avoid**

Contact with incompatible materials

**Incompatible Materials**

Water reactive materials – alkali metals – electrically energized equipment



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### 10. STABILITY AND REACTIVITY

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#### Hazardous Decomposition Products

Oxides of carbon – sulfur oxides – hydrogen fluoride – nitrogen oxides – sodium oxides

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### 11. TOXICOLOGICAL INFORMATION

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#### Acute Toxicity

##### Hexylene Glycol

Oral LD50 rat >2000 mg/kg

Dermal LD50 rabbit >2000 mg/kg

#### Specific Target Organ Toxicity (STOT) – single exposure

Available data indicates this product is not expected to cause target organ effects after a single exposure.

#### Specific Target Organ Toxicity (STOT) – repeat exposure

Available data indicates this product is not expected to cause target organ effects after repeated exposures.

#### Serious Eye damage/Irritation

Product: Available data indicates this product is not expected to cause eye irritation.

Hexylene Glycol: Causes serious eye irritation.

#### Skin Corrosion/Irritation

Product: Available data indicates this product is not expected to cause skin irritation.

Hexylene Glycol: Causes skin irritation.

#### Respiratory or Skin Sensitization

Biocide: Classified as skin sensitizer at  $\geq 0.1\%$  (ECHA)

#### Carcinogenicity

Not considered carcinogenic by NTP, IARC, and OSHA.

#### Germ Cell Mutagenicity

No relevant studies identified.

#### Reproductive Toxicity

No relevant studies identified.

#### Aspiration Hazard

Not an aspiration hazard.

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### 12. ECOLOGICAL INFORMATION

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#### Ecotoxicity

No relevant studies identified.

#### Mobility in soil

No relevant studies identified.

#### Persistence/Degradability

No relevant studies identified.



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**12. ECOLOGICAL INFORMATION**

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**Bioaccumulative Potential**

This product is not expected to bioaccumulate.

**Other adverse effects**

No relevant studies identified.

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**13. DISPOSAL CONSIDERATIONS**

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**Disposal Methods**

This product, as sold, 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

Prevent foam concentrate from entering ground water, surface water or storm drains. Small quantities of foam concentrate may be collected on absorbents which can then be disposed of. Disposal should be made in accordance with local, state and federal regulations. High temperature incineration is recommended.

Foam/Foam Solution

Prevent foam/foam solution from entering ground water, surface water or storm drains. Small quantities of foam solution may be collected on absorbents which can then be disposed of. Disposal should be made in accordance with local, state and federal regulations, high temperature incineration is recommended.

**NOTE:** Please consult Angus Fire for additional information regarding the disposal of foam concentrates and foam solutions.

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**14. TRANSPORT INFORMATION**

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**Shipping Information**

**Shipping Description**

**National Motor Freight Code**

Fire Extinguisher Charges or Compounds N.O.I., Class 70  
69160 Sub 0

This information is not intended to convey all transportation classifications that may apply to this product. Classifications may vary by container volume and by regional regulations. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules when transporting this material.

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**15. REGULATORY INFORMATION**

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**United States TSCA Inventory**

This product contains an ingredient that has not been verified for compliance with the inventory listing requirements of the US Toxic Substance Control Act (TSCA) Chemical Substance Inventory.

**Canada DSL Inventory**

This product contains ingredients that have not been verified for listing on the Domestic Substance List (DSL) or the Non-Domestic Substance List (NDSL).

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

Skin sensitization



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## 15. REGULATORY INFORMATION

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### SARA Title III Sect. 313

This product contains the following chemicals that are listed in Section 313 at or above de minimis concentrations: None

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

None

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## 16. OTHER INFORMATION

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### NFPA Ratings

NFPA Code for Health - 2

NFPA Code for Flammability - 0

NFPA Code for Reactivity - 0

NFPA Code for Special Hazards - None

### Legend

ACGIH: American Conference of Governmental Industrial Hygienists

BOD<sub>5</sub>: Biochemical Oxygen Demand (5 day)

BOD<sub>28</sub>: Biochemical Oxygen Demand (28 day)

CAS#: Chemical Abstracts Service Number

COD: Chemical Oxygen Demand

EC50: Effect Concentration 50%

IARC: International Agency for Research on Cancer

LC50: Lethal Concentration 50%

LD50: Lethal Dose 50%

N/A: Denotes no applicable information found or available

OSHA: Occupational Safety and Health Administration

PEL: Permissible Exposure Limit

RQ: Reportable Quantity

STEL: Short Term Exposure Limit

N/A: Denotes no applicable information found or available

OSHA: Occupational Safety and Health Administration

PEL: Permissible Exposure Limit

RQ: Reportable Quantity

STEL: Short Term Exposure Limit

TLV: Threshold Limit Value

TSCA: Toxic Substance Control Act

Revision Date: March 10, 2017

Replaces: This is the first issue.

Changes made: Not applicable

### Information Source and References

This SDS is prepared by Hazard Communication Specialists based on information provided by internal company references.

**Prepared By:**

EnviroNet LLC.



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**16. OTHER INFORMATION**

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Niagara is a registered trademark of Angus International.

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