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**1. IDENTIFICATION**

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<b>Product Name</b>	Universal Plus <sup>®C6</sup> 3%/6% Alcohol Resistant Aqueous Film Forming Foam Concentrate (AR-AFFF)
<b>Recommended use of the chemical and restrictions on use</b>	
<b>Identified uses</b>	Firefighting Foam Concentrate
<b>Restrictions on Use</b>	See Section 15
<b>Company Identification</b>	National Foam 350 East Union Street West Chester, PA 19382 (610) 363-1400 Infotrac at (800) 535-5053
<b>Customer Information Number</b>	
<b>Emergency Telephone Number</b>	
<b>Issue Date</b>	February 13, 2017
<b>Supersedes Date</b>	November 2, 2016

*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)*

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**2. HAZARD IDENTIFICATION**

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**Hazard Classification**

Eye Damage/Irritation – Category 2A

**Label Elements****Hazard Symbols**

Signal Word: Warning

**Hazard Statements**

Causes serious eye irritation.

**Precautionary Statements****Prevention**

Wash hands thoroughly after handling.

Wear eye protection and face protection.

**Response**

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

**Storage**

None

**Disposal**

None

**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	<5%
Acute dermal toxicity	<10%
Acute inhalation toxicity	10 - 20%
Acute aquatic toxicity	10 - 20%

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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	80 - 90%
Surfactant	Proprietary	1 - <10%
Synthetic detergent	Proprietary	1 - <10%
Dipropylene Glycol Monomethyl Ether	34590-94-8	1 - <10%
Fluoroalkyl surfactants	Proprietary	1 - <10%
Xanthan Gum	11138-66-2	<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 if soreness or redness persists.

**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.

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**5. FIRE - FIGHTING MEASURES**

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**Specific hazards arising from the chemical**

None known

**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 35°F and 120°F (2°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.

**Dipropylene Glycol Monomethyl Ether**

ACGIH: TLV 100 ppm, 8hr; 15 min STEL 150 ppm; Skin Designation: air sampling alone is insufficient to accurately quantitate exposure. Measures to prevent significant cutaneous absorption may be required.  
OSHA Z-1 PEL: 100 ppm (600 mg/m<sup>3</sup>) Limit applies to skin.

**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.

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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

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**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.

**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>	Yellow
<b>Odor</b>	Mild, pleasant
<b>Odor Threshold</b>	No data available
<b>pH</b>	8.1
<b>Specific Gravity</b>	1.02
<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>	>200°F
<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.

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**10. STABILITY AND REACTIVITY**

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**Conditions to Avoid**

Contact with incompatible materials

**Incompatible Materials**

Water reactive materials – burning metals – electronically energized equipment

**Hazardous Decomposition Products**

Oxides of carbon – hydrogen fluoride – aldehydes – ketones – organic acids

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**11. TOXICOLOGICAL INFORMATION**

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**Acute Toxicity**Product

Oral LD50 (rat) >5000mg/kg (tested on a similar product)

Synthetic Detergent

Oral LD50 (rat) >5000mg/kg

Dipropylene Glycol Monomethyl Ether

Oral LD50 (rat) >5000 mg/kg

Dermal LD5 (rabbit) >9510 mg/kg

Inhalation LC50 (rat) > 3.35 mg/l,7h, vapour, no deaths occurred at this concentration

**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 component not expected to cause target organ effects after repeated exposure.

**Serious Eye damage/Irritation**

Product: Primary irritant (rabbit) (tested on a similar product)

Surfactant: Severe eye irritant (based on similar material)

Synthetic Detergent: Severely irritating (rabbit) (50% solution)

**Skin Corrosion/Irritation**

Product: Not a primary irritant (rabbit) (tested on a similar product)

**Respiratory or Skin Sensitization**

Available data indicates this product is not expected to cause skin sensitization.

**Carcinogenicity**

Not considered carcinogenic by NTP, IARC, and OSHA.

**Germ Cell Mutagenicity**

Available data indicates this product is is not expected to be mutagenic.

**Reproductive Toxicity**

Available data indicates this product is not expected to cause reproductive toxicity or birth defects.

**Aspiration Hazard**

Not an aspiration hazard.

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**12. ECOLOGICAL INFORMATION**

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**Ecotoxicity**

LC50 Fathead minnows >1000 ppm 96h, flow through (tested on a similar product)

**Mobility in soil**

No relevant studies identified.

**Persistence/Degradability**

BOD<sub>5</sub>: 63,800 mg/kg (tested on a similar product)

COD: 190,000 mg/kg (tested on a similar product)

**Bioaccumulative Potential**

No relevant studies identified.

**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 National Foam 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 restricted use under the EPA Toxic Substance Control Act. This product may only be used as a firefighting foam. Any other use of this product is strictly prohibited.

**Canada DSL Inventory**

This product contains an ingredient that is not listed on the Domestic Substance List (DSL) or the Non-Domestic Substance List (NDSL).

This product contains an ingredient that has 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**

Eye irritation

**SARA Title III Sect. 313**

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

**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 - 0

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)

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

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**16. OTHER INFORMATION**

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Revision Date: February 13, 2017

Replaces: November 2, 2016

Changes made: Changes to Section 3 and 15.

**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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