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**1. IDENTIFICATION**

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<b>Product Name</b>	Aer-O-Water <sup>®C6</sup> 3EM 3% Aqueous Film Forming Foam Concentrate (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
<b>Customer Information Number</b>	(610) 363-1400
<b>Emergency Telephone Number</b>	Infotrac at (800) 535-5053
<b>Issue Date</b>	May 18, 2021
<b>Supersedes Date</b>	November 23, 2020
<i>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)</i>	

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**2. HAZARD IDENTIFICATION**

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**Hazard Classification**

Eye Damage/Irritation - Category 2A  
Specific Target Organ Toxicity (Repeated Exposure) - 2

**Label Elements**

Hazard Symbols



Signal Word: Warning

**Hazard Statements**

Causes serious eye irritation.  
May cause damage to organs (kidney) through prolonged or repeated exposure (oral).

**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.  
Get medical advice/attention if you feel unwell.

**Storage**

None

**Disposal**

Dispose of contents/container in accordance with local regulation.

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**2. HAZARD IDENTIFICATION**

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**Other Hazards**

This product contains fluoroalkyl surfactants which are and include PFAS (per- or poly- fluoroalkyl substances) and is required to be disposed of by high temperature incineration. See Sections 13 and 15 for additional information.

**Specific Concentration Limits**

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

Acute oral toxicity	<1%
Acute dermal toxicity	<10%
Acute inhalation toxicity	30 - 40%
Acute aquatic toxicity	20 - 30%

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**3. COMPOSITION/INFORMATION ON INGREDIENTS**

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This product is a mixture.

<b>Component</b>	<b>CAS Number</b>	<b>Concentration</b>
Water	7732-18-5	60 - 70%
Diethylene Glycol Monobutyl Ether	112-34-5	10 - 20%
Ethylene Glycol	107-21-1	5 - 15%
Synthetic detergent	Proprietary	1 - 10%
Fluoroalkyl surfactants	Proprietary	1 - 5%
Surfactant	Proprietary	<1%

This product contains fluoroalkyl surfactants which are and include PFAS (per- or poly- fluoroalkyl substances). See Sections 13 and 15 for additional information.

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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.

**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**

Environmental exposure controls: Observe local/national regulations on emissions. Ensure all local/national regulations are observed.

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.

**Diethylene Glycol Monobutyl Ether**

ACGIH TLV: 10 ppm (67.5 mg/m<sup>3</sup>), 8hr TWA, measured as inhalable fraction and vapor

**Ethylene Glycol**

ACGIH TLVs: TWA 25 ppm (vapor fraction),

STEL 50 ppm (vapor fraction), 10 mg/m<sup>3</sup> (aerosol only, measured as inhalable fraction of the aerosol)

**Synthetic detergent**

None established

**Fluoroalkyl surfactants**

None established

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Surfactant**

None established

**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.

**Skin Protection**

Gloves

**Eye/Face Protection**

Chemical goggles or safety glasses with side shields.

**Body Protection**

Normal work wear.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance**

	<b>Physical State</b>	Liquid
	<b>Color</b>	Straw yellow
<b>Odor</b>		Mild, pleasant
<b>Odor Threshold</b>		No data available
<b>pH</b>		8.0
<b>Specific Gravity</b>		1.04
<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.

**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**Synthetic Detergent

Oral LD50 (rat) >5000mg/kg

Diethylene Glycol Monobutyl Ether

Oral LD50 (rat) 3305 mg/kg

Dermal LD5 (rabbit) 2764 mg/kg

Ethylene Glycol

Minimum lethal dose in humans: 1600 mg/kg body weight(estimate)

LD50 Dermal (rabbit) >3500 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**

Ethylene Glycol: May cause damage to organs (kidney) through prolonged or repeated exposure (oral).

**Serious Eye damage/Irritation**

Diethylene Glycol Monobutyl Ether: Causes serious eye irritation.

Surfactant: Severe eye irritant (based on similar material)

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

**Skin Corrosion/Irritation**

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

**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.

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**11. TOXICOLOGICAL INFORMATION**

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**Germ Cell Mutagenicity**

Available data indicates this product 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**

No relevant studies identified.

**Mobility in soil**

No relevant studies identified.

**Persistence/Degradability**

No relevant studies identified.

**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 contains PFAS (per- or poly- fluoroalkyl substances). Local requirements for waste disposal may be more restrictive or otherwise different from national 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. EPA requires high temperature incineration at a minimum of 1000°C with a minimum residence time of 2 seconds for analogous compounds under Significant New Use Rules.

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. EPA requires high temperature incineration at a minimum of 1000°C with a minimum residence time of 2 seconds for analogous compounds under Significant New Use Rules.

**NOTE:** Please consult National Foam for additional information regarding the disposal of foam concentrates and foam solutions or visit <http://nationalfoam.com/use-discharge-and-disposal-of-firefighting-foam-products/>

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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 and is subject to a Significant New Use Rule (40CFR721.10727). This product may only be used as a fire fighting foam. Any other use of this product is strictly prohibited. Although this product does not specifically contain a chemical regulated under EPA Significant New Use Rule for restriction of use as a firefighting foam that requires disposal by incineration at a minimum of 1000°C with a minimum residence time of 2 seconds, it contains a similar analogous compound.

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

Eye irritation – Specific Target Organ Toxicity (repeated exposure)

**SARA Title III Sect. 313**

This product contains the following chemicals that are listed in Section 313 at or above de minimis concentrations: Ethylene Glycol - Diethylene Glycol Monobutyl Ether

**California Proposition 65**

**WARNING:** This product can expose you to chemicals including acetaldehyde, 1,4 dioxane and formaldehyde, which are known to the State of California to cause cancer, and perfluorooctanoic acid, ethylene glycol and methanol, which are known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).”

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

Ethylene Glycol (107-21-1) 12% by weight maximum

Diethylene Glycol Monobutyl Ether (112-34-5) 16% by weight maximum

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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%

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**16. OTHER INFORMATION**

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**Legend, cont.**

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: May 18, 2021

Replaces: November 23, 2020

Changes made: Updates to sections 2, 6 and 13 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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