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**1. IDENTIFICATION**

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<b>Product Name</b>	Aer-O-Foam® XLX-6 <sup>C6</sup> 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 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>	November 2, 2016
<b>Supersedes Date</b>	January 22, 2016
<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  
Skin Sensitizer - Category 1

**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).  
May cause and allergic skin reaction.

**Precautionary Statements****Prevention**

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

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

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**2. HAZARD IDENTIFICATION**

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**Storage**

None

**Disposal**

Dispose of contents/container in accordance with local regulation.

**Other Hazards**

None identified.

**Specific Concentration Limits**

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

Acute oral toxicity 20 - 30%

Acute dermal toxicity 20 - 30%

Acute inhalation toxicity 25 - 35%

Acute aquatic toxicity 25 - 35%

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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%
Hexylene Glycol	107-41-5	1 - 5%
Ethylene Glycol	107-21-1	1 - 5%
Ferrous Sulfate	7720-78-7	<1%
Zinc Chloride	7646-85-7	<1%
Fluoroalkyl surfactants	Proprietary	<1%
Biocide	Proprietary	<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.

**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.

**Ethylene Glycol, Aerosol**

ACGIH: Ceiling 100 mg/m<sup>3</sup>

**Hexylene Glycol**

ACGIH: Ceiling 25 ppm

**Ferrous Sulfate as Iron Salts, Soluble, as Fe**

ACGIH: TLV 1 mg/m<sup>3</sup> 8h TWA

**Zinc Chloride, fume**

ACGIH: TLV 1 mg/m<sup>3</sup> 8h TWA, 15-minute STEL is: 2 mg/m<sup>3</sup>.

OSHA: Z-1 PEL 1 mg/m<sup>3</sup>

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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

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**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. 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**

Rubber or PVC 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>		Organic
<b>Odor Threshold</b>		No data available
<b>pH</b>		7.3
<b>Specific Gravity</b>		1.12
<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.

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**10. STABILITY AND REACTIVITY**

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**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 – sulfur oxides – iron oxides

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**11. TOXICOLOGICAL INFORMATION**

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**Acute Toxicity**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**

Hexylene Glycol: Causes serious eye irritation.

Ferrous Sulfate: Causes serious eye irritation.

Zinc Chloride: Causes severe skin burns and eye damage.

**Skin Corrosion/Irritation**

Ferrous Sulfate: Skin irritant in rabbit tests.

Zinc Chloride: Causes severe skin burns and eye damage. A 1 % w/v zinc chloride was found to be moderately irritating to guinea-pig skin, and severely irritating to mouse and rabbit skin.

**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**

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**Zinc Chloride:

LC50 Carp 0.4 -2.2 mg/l 96hr

EC50 Daphnia Magna 0.2 mg/l 48 hr

Aquatic Chronic – Category 1, Very toxic to aquatic life with long lasting effects. (ECHA classification.)

**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, 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**

All components of this product are in compliance or are exempt from inventory listing requirements of the US Toxic Substance Control Act (TSCA) Chemical Substance Inventory.

**Canada DSL Inventory**

All ingredients in this product 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**

Immediate (Acute) Health Hazard, Delayed (Chronic) Health Hazard

**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

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

Ethylene Glycol (107-21-1) 3% by weight maximum  
Ferrous Sulfate (7720-78-7) 1% by weight maximum  
Zinc Chloride (7646-85-7) 1% 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%  
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: November 2, 2016  
Replaces: January 22, 2016  
Changes made: Changes to Section 6 and 13.

**Information Source and References**

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

**Prepared By:** EnviroNet LLC.

Aer-O-Foam is a trademark of Angus International.

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