# SAFETY DATA SHEET – NMS#320
## Aer-O-Lite ™ C6 6%
## Aqueous Film Forming Foam Concentrate (AFFF)

## 1. IDENTIFICATION

| | |
|---|---|
| **Product Name** | Aer-O-Lite ™ C6 6%<br>Aqueous Film Forming Foam Concentrate (AFFF) |
| **Recommended use of the chemical and restrictions on use** | |
| **Identified uses** | Firefighting foam concentrate |
| **Restrictions on Use** | See product data sheet |
| **Company Identification** | National Foam<br>350 East Union Street<br>West Chester, PA 19382 |
| **Customer Information Number** | (610) 363-1400 |
| **Emergency Telephone Number** | Infotrac at (800) 535-5053 |
| **Issue Date** | May 18, 2021 |
| **Supersedes Date** | November 20, 2020 |

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

## 2. HAZARD IDENTIFICATION

**Hazard Classification**
This product is classified as not hazardous in accordance with the Globally Harmonized System of Classification and Labelling (GHS).

**Label Elements**
Hazard Symbols
None

Signal Word: None

**Hazard Statements**
None

**Precautionary Statements**
**Prevention**
None
**Response**
None
**Storage**
None
**Disposal**
None

**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 | <10% |
| Acute dermal toxicity | <10% |
| Acute inhalation toxicity | <10% |
| Acute aquatic toxicity | <10% |

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

This product is a mixture.

| Component | CAS Number | Concentration* |
|---|---|---|
| Diethylene Glycol Monobutyl Ether | 112-34-5 | 1 - 5% |

*Exact concentration withheld as trade secret.

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

## 4. FIRST- AID MEASURES

**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.

## 5. FIRE - FIGHTING MEASURES

**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.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**
Wear appropriate protective clothing. Prevent skin and eye contact.

## 6. ACCIDENTAL RELEASE MEASURES

**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.

## 7. HANDLING AND STORAGE

**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

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters**
Exposure limits are listed below, if they exist.
**Diethylene Glycol Monobutyl Ether**
ACGIH TLV: 10 ppm (67.5 mg/m$^3$), 8hr TWA, measured as inhalable fraction and vapor

**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**

| | |
|---|---|
| **Physical State** | Liquid |
| **Color** | Light amber |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|---|
| **Odor** | Mild, pleasant |
| **Odor Threshold** | No data available |
| **pH** | 6.6 - 7.6 |
| **Specific Gravity** | 1.0 – 1.02 |
| **Boiling Range/Point (°C/F)** | No data available |
| **Melting Point (°C/F)** | No data available |
| **Flash Point (°C/F)** | >200°F |
| **Vapor Pressure** | No data available |
| **Evaporation Rate (BuAc=1)** | No data available |
| **Solubility in Water** | Soluble |
| **Vapor Density (Air = 1)** | Not applicable |
| **VOC (%)** | No data available |
| **Partition coefficient (n-octanol/water)** | No data available |
| **Viscosity, kinematic** | 2 $mm^2/s$ (20°C) |
| **Auto-ignition Temperature** | Not applicable |
| **Decomposition Temperature** | No data available |
| **Upper explosive limit** | Not applicable |
| **Lower explosive limit** | Not applicable |
| **Flammability (solid, gas)** | Not applicable |

## 10. STABILITY AND REACTIVITY

**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 – electronically energized equipment

**Hazardous Decomposition Products**
Oxides of carbon – sulfur oxides – hydrogen fluoride – nitrogen oxides – sodium oxides

## 11. TOXICOLOGICAL INFORMATION

**Acute Toxicity**
Diethylene Glycol Monobutyl Ether
Oral LD50 (rat) 3305 mg/kg
Dermal LD5 (rabbit) 2764 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.

## 11. TOXICOLOGICAL INFORMATION

**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**
Diethylene Glycol Monobutyl Ether: Causes serious eye irritation.

**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.

**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.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**
No relevant studies identified.

**Mobility in soil**
No relevant studies identified.

**Persistence/Degradability**
This product is readily biodegradable.

**Bioaccumulative Potential**
This product is not expected to bioaccumulate.

**Other adverse effects**
No relevant studies identified.

## 13. DISPOSAL CONSIDERATIONS

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/

## 14. TRANSPORT INFORMATION

**Shipping Information**

| | |
|---|---|
| **Shipping Description** | Fire Extinguisher Charges or Compounds N.O.I., Class 70 |
| **National Motor Freight Code** | 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.

## 15. REGULATORY INFORMATION

**United States TSCA Inventory**

All components of this product have been verified for compliance with the inventory listing requirements of the US Toxic Substance Control Act (TSCA) Chemical Substance Inventory. 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.

**Canada DSL/NDSL Inventory**

All substances contained in this product are in compliance with the Canadian Environmental Protection Act and are present on the Domestic Substances List (DSL) or are exempt.

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

None

**SARA Title III Sect. 313**

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

## 15. REGULATORY INFORMATION

**California Proposition 65**

**WARNING:** This product can expose you to chemicals including formaldehyde, which is known to the State of California to cause cancer, and perfluorooctanoic acid 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/

**Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)**
Diethylene Glycol Monobutyl Ether (112-34-5) 5% by weight maximum

## 16. OTHER INFORMATION

**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
$BOD_5$: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

Revision Date: May 18, 2021
Replaces: November 20, 2020
Changes made: Updates to sections 2, 6, 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.

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

## 16. OTHER INFORMATION

The information and recommendations presented in this SDS are based on sources believed to be accurate. National Foam assumes no liability for the accuracy or completeness of this information. It is the user's responsibility to determine the suitability of the material for their particular purposes. In particular, we make NO WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, with respect to such information, and we assume no liability resulting from its use. Users should ensure that any use or disposal of the material is in accordance with applicable Federal, State, and local laws and regulations.