

1. IDENTIFICATION

Product Name Aer-O-Lite TM C6 1% Cold Foam

Aqueous Film Forming Foam Concentrate (AFFF)

Recommended use of the chemical and

restrictions on use Identified uses Restrictions on Use Company Identification

Firefighting Foam Concentrate See product data sheet

National Foam

350 East Union Street West Chester, PA 19382

(610) 363-1400

Infotrac at (800) 535-5053

August 8, 2023 May 10, 2021

Customer Information Number Emergency Telephone Number

Issue Date Supersedes Date

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

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

Label Elements

Hazard Symbols





Signal Word: Warning

Hazard Statements

Causes serious eve 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.

Revision Date: August 8, 2023 NMS#315 Page 1 of 8



2. HAZARD IDENTIFICATION

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 5 - 15%
Acute inhalation toxicity 50 - 60%
Acute aquatic toxicity 25 - 35%

3. COMPOSITION/INFORMATION ON INGREDIENTS

This product is a mixture.

Component	CAS Number	Concentration*
Diethylene Glycol Monobutyl Ether	112-34-5	10 - 30%
Ethylene Glycol	107-21-1	10 - 30%
Ethanol	64-17-5	1 - 5%
Sodium octyl sulfate	142-31-4	0.5 - 1.5%
Sodium decyl sulfate	142-87-0	0.1 - 1.0%

^{*}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.

Revision Date: August 8, 2023 NMS#315 Page 2 of 8



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.

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 0°F and 120°F (-18°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/m³), 8hr TWA, measured as inhalable fraction and vapor **Ethylene Glycol**

ACGIH TLVs: TWA 25 ppm (vapor fraction),

STEL 50 ppm (vapor fraction), 10 mg/m³ (aerosol only, measured as inhalable fraction of

the aerosol)

Ethanol

ACGIH: 1000 ppm (1880 mg/m3) 15-min STEL OSHA: PEL 1000 ppm (1900 mg/m3) 8h TWA

Revision Date: August 8, 2023 NMS#315 Page 3 of 8



8. **EXPOSURE CONTROLS/PERSONAL PROTECTION**

Sodium Decyl sulfate

None established **Sodium Octvl Sulfate**

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

Butyl rubber gloves

Eye/Face Protection

Chemical goggles or safety glasses with side shields.

Body Protection

Normal work wear.

PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical State Liquid Color Amber

Mild, pleasant

Odor No data available **Odor Threshold**

7.1 Specific Gravity 1.04

Boiling Range/Point (°C/F) No data available Melting Point (°C/F) No data available

>200°F Flash Point (°C/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-No data available

octanol/water)

Viscosity No data available **Auto-ignition Temperature** Not applicable **Decomposition Temperature** No data available Upper explosive limit Not applicable Not applicable Lower explosive limit 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

Ethylene Glycol

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

LD50 Dermal (rabbit) >3500 mg/kg

<u>Ethanol</u>

Oral LD50 (rat) 7060 mg/kg

Inhalation LC50 (rat) 117 mg/l

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 Eve damage/Irritation

Diethylene Glycol Monobutyl Ether: Causes serious eye irritation.

Sodium decyl sulfate: Causes serious eye damage.

Sodium octyl sulfate: Causes serious eye damage.

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.

Revision Date: August 8, 2023 NMS#315 Page 5 of 8



11. TOXICOLOGICAL INFORMATION

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. BOD: 0.706g O₂/g substance (28 days) COD: 0.913g O₂/g substance (28 days) Biodegradation: 77% (28 days)

Bioaccumulative Potential

This product is not expected to bioaccumulate.

Other adverse effects

No relevant studies identified.

13. DISPOSAL CONSIDERATIONS

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.

<u>NOTE:</u> 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/

Revision Date: August 8, 2023 NMS#315 Page 6 of 8



14. TRANSPORT INFORMATION

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.

15. REGULATORY INFORMATION

United States TSCA Inventory

All components of this product are in 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 Inventory

All ingredients in this product have 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 – 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/

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

Ethylene Glycol (107-21-1) 16% by weight maximum Diethylene Glycol Monobutyl Ether (112-34-5) 29% by weight maximum

16. OTHER INFORMATION

NFPA Ratings

NFPA Code for Health - 1 NFPA Code for Flammability - 0 NFPA Code for Reactivity - 0 NFPA Code for Special Hazards - None



16. OTHER INFORMATION

Legend

ACGIH: American Conference of Governmental Industrial Hygienists

BOD₅: 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: August 8, 2023 Replaces: 2020 May 10, 2021

Changes made: Updates to section 9.

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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