
1. IDENTIFICATION

Product Name	Universal ^{®F3} Green 1%-3% Alcohol Resistant Synthetic Foam Concentrate
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 350 East Union Street West Chester, PA 19382-3450
Customer Information Number	(610) 363-1400
Emergency Telephone Number	Infotrac at (800) 535-5053
Issue Date	April 3, 2024
Supersedes Date	August 21, 2023
<i>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)</i>	

2. HAZARD IDENTIFICATION

Hazard Classification
Eye Damage/Irritation – Category 1

Label Elements
Hazard Symbols



Signal Word: Danger

Hazard Statements
Causes serious eye damage.

Precautionary Statements

Prevention

Wash hands thoroughly after handling.
Wear eye protection, protective clothing, protective gloves.

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. Take off contaminated clothing and wash it before reuse.

Storage

None

Disposal

None

2. HAZARD IDENTIFICATION

Other Hazards

None identified.

Specific Concentration Limits

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

Acute oral toxicity	9 - 25%
Acute dermal toxicity	9 - 25%
Acute inhalation toxicity	13 - 35%
Acute aquatic toxicity	9 - 25%

3. COMPOSITION/INFORMATION ON INGREDIENTS

This product is a mixture.

Component	CAS Number	Concentration*
Lauramidopropyl betaine;	4292-10-8	7 - 15%
D-Glucopyranose, oligomers, decyl octyl glycosides;	68515-73-1	1 - 5%
2-(2-butoxyethoxy)ethanol;	112-34-5	4 - 10%
Beta-alanine, n-(2-carboxymethyl)-,n-coco alkyl derivatives;	90170-43-7	1 - 5%

*Exact concentration withheld as trade secret.

4. FIRST- AID MEASURES

Description of necessary first-aid measures**Eyes**

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. Call a physician immediately.

Skin

Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash skin with plenty of water.

Ingestion

Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a poison center or a doctor if you feel unwell.

Inhalation

Move victim to fresh air. Obtain medical attention immediately for any breathing difficulty. Allow the victim to rest.

Most important symptoms/effects, acute and delayed

Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard.

Causes serious eye damage. Serious damage to eyes.

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.

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.

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.

2-(2-butoxyethoxy)ethanol

ACGIH OEL TWA: 10 ppm (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 yellow
Odor	Characteristic
Odor Threshold	No data available
pH	7 - 8
Relative Density	1.05 - 1.09
Boiling Range/Point (°C/F)	No data available
Melting Point (°C/F)	No data available
Flash Point (°C/F)	>100°C/212°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	No data available
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 – electrically energized equipment - oxidizing agents

Hazardous Decomposition Products

Oxides of carbon – sulfur oxides – nitrogen oxides – sodium oxides

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

2-(2-butoxyethoxy)ethanol

LD50 Oral (Mouse, female) 2410 – 5530 mg/kg bodyweight

LD50 Dermal (Rabbit, male) 2764 mg/kg bodyweight

Specific Target Organ Toxicity (STOT) – single exposure

No relevant studies identified.

Specific Target Organ Toxicity (STOT) – repeat exposure

No relevant studies identified.

Serious Eye damage/Irritation

2-(2-butoxyethoxy)ethanol: Causes serious eye damage

Skin Corrosion/Irritation

2-(2-butoxyethoxy)ethanol: Not classified

Respiratory or Skin Sensitization

No relevant studies identified.

Carcinogenicity

Not considered carcinogenic by NTP, IARC, and OSHA.

Germ Cell Mutagenicity

No relevant studies identified.

Reproductive Toxicity

No relevant studies identified.

Aspiration Hazard

Not an aspiration hazard.

12. ECOLOGICAL INFORMATION

Ecotoxicity

2-(2-butoxyethoxy)ethanol

LC50 Fish (*Lepomis macrochirus*): 1300 mg/l 96hr

EC50 daphnia magna >100 mg/l 48 hr

ErC50 Algae >100 mg/l 96hr

Mobility in soil

No relevant studies identified.

Persistence/Degradability

This product is rapidly biodegradable. (OECD 301A)

Beta-alanine, n-(2-carboxymethyl)-,n-coco alkyl derivatives: Rapidly degradable

Lauramidopropyl betaine: Rapidly degradable

2-(2-butoxyethoxy)ethanol: Rapidly degradable

D-Glucopyranose, oligomers, decyl octyl glycosides: Rapidly degradable

Bioaccumulative Potential

This product is not expected to bioaccumulate.

Other adverse effects

No relevant studies identified.

13. DISPOSAL CONSIDERATIONS

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.

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.

NOTE: Please consult National Foam for additional information regarding the disposal of foam concentrates and foam solutions.

14. TRANSPORT INFORMATION

Shipping Information**Shipping Description****National Motor Freight Code**

Fire Extinguisher Charges or Compounds N.O.I., Class 70
69160 Sub 0

UN number

Not regulated for transport

UN proper shipping name

Proper Shipping Name (DOT, TDG, IMDG, IATA): Not applicable

Transport hazard class(es)

Transport hazard class(es) (DOT, TDG, IMDG, IATA): Not applicable

Packing group

Packing group (DOT, TDG, IMDG, IATA): Not applicable

Environmental hazards

Other information: No supplementary information available.

Special precautions for user

No data available

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

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.

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 – Skin Irritation

SARA Title III Sect. 313

This product contains the following chemicals that are listed in Section 313 at or above de minimis concentrations: None

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

None

16. OTHER INFORMATION

NFPA Ratings

NFPA Code for Health - 2

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

TLV: Threshold Limit Value

TSCA: Toxic Substance Control Act

Revision Date: April 3, 2024

Replaces: September 26, 2022

Changes made: Update to section 14

Information Source and References

This SDS is prepared by National Foam based on information provided by supplier references.

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