

SAFETY DATA SHEET

SECTION I - IDENTIFICATION

Product Identifier: Greenfire® Firefighting Foam (GFFF)

Recommended Use:
Designed for Class B fires. Fluorine free alternative to PFAS based foams.

Manufacturer:
Fire Suppression Innovations
101 S. Kraemer Blvd. Suite 100 Placentia,
CA. 91024
Telephone number: +1 (949) 246-4826

In case of emergency:
Call your physician or Poison Control
Center 1-800-222-1222T

SECTION II - HAZARDS IDENTIFICATION

Hazard Statements:

 **H320** Causes Eye Irritation
(Category 2B — Least Concern)

Precautionary Statements:

P201: Do not handle until all safety precaution have been read and understood.
P264: Wash thoroughly after handling.
P280+P281: Wear personal protective equipment as required. Wear eye protection
P305+P351: If in eyes: Rinse cautiously with water for several minutes.
P308+P313: If exposed or concerned: Get medical advice or attention.

SECTION III - COMPOSITION

Ingredients: Proprietary mixture/trade secret as defined by 29CFR 1910.1200
Contains food safe wetting agents, anionic detergents.



SECTION IV - FIRST AID MEASURES

Skin Contact: Wash with water. Prolonged exposure may cause dryness and irritation.

Eye Contact: Flush with water. Seek medical attention if irritation persists.

Inhalation: Remove person to fresh air. If symptoms such as nose or throat irritation are observed, seek medical attention.

Ingestion: In large amounts: likely to be emetic. If a victim is unconscious make sure that their airways are clear.

Symptoms of eye contact: Redness, tearing, burning.

Symptoms of ingestion: Nausea, Vomiting, diarrhea.

Indication of immediate medical attention or special treatment needed:
No data available.

SECTION V - FIRE-FIGHTING MEASURES

Product is non-flammable, non-combustible, non-explosive, intrinsically flame retardant. No special protective equipment, precautions, hazards, or extinguishing media

SECTION VI - ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures:

Product can be very slippery! Use extreme caution walking on smooth surfaces that are wet with GreenFire®.

Methods and materials for cleanup:

Sorbents may be used. Prevent spills from reaching waterways. Disposal is to be performed in compliance with all federal, state and local laws. Solutions of detergents may be allowed to be flushed down sewer. First check with your local water treatment plant. In case of large spillage into water, advise local water authorities that the affected water should not be used for abstraction of potable water until natural dilution returns boron value to normal background environmental level.

SECTION VII - HANDLING AND STORAGE

Precautions for safe handling: No unusual precautions necessary.

Precautions for Storage: No unusual precautions necessary

SECTION VIII - EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits: None of the ingredients have assigned exposure limits.

Engineering controls and Personal Protective Equipment:

Always use eye protection and suitable gloves. In circumstances where large amounts of mist is likely to be created, use appropriate ventilation and/or particulate respirator type N95 or better.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Transparent straw colored or clear liquid

Odor: Insignificant

pH: 6.8

Freezing point: ~30F

Boiling point: ~215F

Flash point/Flammability/Auto ignition temperature: non-flammable

Evaporation rate: similar to water

Vapor pressure: similar to water

Vapor density: similar to water

Relative density: 1.02g/cc

Solubility: miscible in water and alcohols
artition coefficient: hydrophilic

Decomposition temperature: dehydration begins at approximately 215F
Viscosity: variable non-Newtonian

SECTION X - STABILITY AND REACTIVITY

Reactivity: No additional information.

Chemical Stability: Stable under normal conditions.

Possibility of hazardous reactions: Avoid contact with strong reducing agents such as metal hydrides or alkali metals. These can react to generate flammable hydrogen gas.

Conditions to avoid: Avoid incompatible materials.

Incompatible materials: Strong reducing agents such as alkali metals, metal hydrides.

Hazardous decomposition products: Hydrogen, boranes, ammonia.

SECTION XI - TOXICOLOGICAL INFORMATION

Acute toxicity: Low acute toxicity: LD50 in rats is over 70,000 mg product/kg of body weight.

Skin corrosion/irritation: Prolonged or repeated skin contact as from clothing wet with the material may cause dermatitis.

Serious eye damage/irritation: Eye irritant.

Respiratory or skin sensitization: Not a skin sensitizer.

Germ Cell mutagenicity/carcinogenicity: No component in this product in concentrations of %0.1 or greater, is identified as a carcinogen, potential carcinogen, anticipated carcinogen, or probable carcinogen according to OSHA, NTP, ACGIH, and IARC.

Reproductive Toxicity: No data available

SECTION XII - ECOLOGICAL INFORMATION

Persistence and biodegradability: The product biodegrades rapidly with an average of 95% decomposition after 28 days.

Algal toxicity: OECD 201 Method, Pseudokirchneriella subcapitata, 72hrs, EC50=349 ppm

Invertebrate toxicity: OECD 202 Method, Daphnia magna, 48hrs, LC50=266 ppm

Fish Toxicity: OECD 203 Method, Pimephales promelas, 96hrs, LC50=41 ppm

Bio-accumulating potential: Not significantly bio-accumulative.

Mobility in soil: Water soluble and is leachable through normal soil.

Other adverse Effects: No data available.

SECTION XIII - DISPOSAL CONSIDERATIONS

Disposal considerations: Always dispose of in accordance with all local, state, and federal regulations. Solutions of detergents may be allowed to be flushed down sewer. First check with your local water treatment plant.

SECTION XIV - TRANSPORT INFORMATION

US DOT: Not dangerous goods.

IMDG: Not dangerous goods.

IATA: Not dangerous goods.

SECTION XV - REGULATORY INFORMATION

SARA 302: No chemicals in this material are subject to the reporting requirements of Sara Title III section 302.

Sara 313: No chemicals in this material are subject to the reporting requirements of Sara Title III section 313.

California Prop. 65 Components: This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

SECTION XVI - REGULATORY INFORMATION

Disclaimer of Liability

The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its accuracy, reliability

or completeness. The conditions or methods of handling, storage use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. It is the user's responsibility to satisfy themselves as to the suitability and completeness of such information for their own particular use. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable. Please note that the provision of this SDS being not mandatory, only an English version of this latter is available.

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Contains  **GREENFIRE** Technology.

 +1 (888) 766 7327  sales@gogreenfire.com

101 S. Kraemer Blvd. Suite 100 Placentia, CA. 91024

www.GoGreenFire.com

