SAFETY DATA SHEET

Cold Fire is an environmentally friendly fire suppressing agent, specially designed to rapidly suppress and extinguish fires, cool down hot surfaces, prevent re-ignition and encapsulate hydrocarbons. Cold Fire is PFAS free, safe to store, handle and use, leaves virtually no residue and is non-toxic, non-corrosive and biodegradable.

Section 1: Identification

Manufacturer: Firefreeze Worldwide, Inc.
Address: 272 Route 46 East, Rockaway, NJ 07866
Phone: 973-627-0722; Fax: 973-627-2982
Email: info@firefreeze.com
Product/Trade Name: Cold Fire
Chemical Identifier: CF-302
Product Usage: UL Listed Wetting Agent for Class A & B fires.
Can be used for Class D, K and C fires with appropriate extinguishing application & equipment.
International Certifications: See regulatory information Section 15.
In emergency call 911.
For information about this SDS, contact phone#: 973-627-0722 or email info@firefreeze.com

Section 2: Hazard(s) Identification

Hazardous Materials Identification System:
Health: 0
Flammability: 0
Reactivity: 0
Personal Protection: 0
Product may be slippery in concentrate form.
No components are believed to be hazardous or listed in the NIOSH Recommendations for Occupational Safety and Health Standards, 1988, or are listed by SARA, CERCLA, or RCRA. No OSHA PEL's are established for any of the proprietary ingredients.

Section 3: Composition/ Information on Ingredients

Formulation is proprietary and components are classified trade secret.
A proprietary environmentally friendly formulation consisting of water, biodegradable anionic and nonionic surfactants, organic compounds and minerals that have been tested PFAS (Perfluoroalkyl and polyfluoroalkyl substances) free. Cold Fire is clear in composition and has a clean, fresh smell.

Section 4: First-Aid Measures

After skin contact: Rinse skin with water.
After eye contact: Immediately flush eyes with water.
After inhalation: Negligible.
After swallowing: Do not swallow. Not considered to be orally toxic.

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Section 5: Fire-Fighting Measures

Non-Flammable: No hazardous combustion ingredients. Product is water based. Will not ignite.

Section 6: Accidental Release Measures

Spill/leak procedure: Rinse affected area with water and dry.
Measures for environmental disposal: Dispose of as non-hazardous waste in accordance with local regulations. PFAS free.

Section 7: Handling and Storage

Handling:
Respiratory Protection: not required.
Ventilation: under ordinary/normal conditions for intended use, no special ventilation is required.
Protective gloves: wear if there is prolonged skin contact as natural surfactants can dry skin.
Eye Protection: wear if needed to prevent reasonable probability of eye contact.

Storage: Store in temperatures between 32°F to 120°F in closed containers to prevent evaporation and/or deterioration. Freezing will not damage material as long as container remains intact.

Section 8: Exposure Controls/Personal Protection

General protective and hygienic measures: Wash hands prior and after handling as per general hygiene measures. No special protective equipment required.

Section 9: Physical and Chemical Properties

Form: Clear, surfactant blend wetting agent
Odor: fresh, clean smell
pH: 6.3 in concentrate form. Neutral when diluted.
Vapor pressure: same as water
Specific Gravity: 1.02 @ 60 degrees Fahrenheit
Solubility in/Miscibility with water: 100%; soluble
Viscosity: 71 (centipoises)
Surface Tension: 30.2 dyne/cm (concentrate)

Section 10: Stability and Reactivity

Reactivity: none
Incompatibility: none
Chemical stability: Product is stable
Corrosion: Product is non-corrosive. Tested in accordance with DOT standard 49 CFR 173.136
Separation Temperature: No separation when stored between 32°F and 120°F
Separation on Standing: No separation when standing
Hazardous decomposition products: Carbon monoxide and carbon dioxide

Section 11: Toxicological Information

Toxicity: In accordance with US EPA Office of Pollution Prevention and Toxics criteria for ranking the acute toxicity of chemicals in the aquatic environment, Cold Fire is considered to be of low concern.

-96 hour acute toxicity versus freshwater algae (selenastrum capricornutum) IAW 40 CFR 797.1050 showed Cold Fire was algicidal at concentrations above 750 ppm.
-96 hour acute toxicity versus juvenile rainbow trout (oncorhynchus mykiss) IAW 49 CFR 797. 1400 showed an LC_{50} of 105 ppm.

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Section 12: Ecological Information (non-mandatory)

Biodegradability: Product is 100% biodegradable in an active environment within 21 days.
Product is PFAS free.

Section 13: Disposal Considerations (non-mandatory)

Dispose of as non-hazardous waste in accordance with local regulations.

Section 14: Transport Information (non-mandatory)

NMFC Code: 69160
US DOT Hazard Class: Not regulated by DOT
US DOT Identification Number: Not applicable

Section 15: Regulatory Information (non-mandatory)

-UL Listed Wetting Agent for Class A & B Fires. Tested in accordance with NFPA 18 Wetting Agents, UL 162 and UL 711.
-ULC (Canada) Listed Wetting for Class A & B Fires. C-175
-EPA-SNAP listed as an alternative to halon for fire suppression.
-PFAS free

***International:**
Chile: tested and certified for Class A, B, C, D & K as per CESMEC

Section 16: Other Information

SDS date of preparation/update: August 10, 2020

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