



SAFETY DATA SHEET

Cold Fire All Season Blend is a special formulation of our UL Listed Cold Fire, fire suppressing agent created for use in areas/markets where temperatures reach well below freezing. Cold Fire All Season formulation can be stored between -50°F-120°F. Cold Fire All Season Blend rapidly suppresses and extinguishes fires, cools down hot surfaces, prevents re-ignition and encapsulates hydrocarbons. Cold Fire All Season Blend 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-302ASB

Product Usage: Cold Fire, primary component of Cold Fire All Season Blend is UL Listed Wetting Agent for Class A & B fires. **CANNOT BE DILUTED. MUST USE IN CONCENTRATE FORM.**

**Please note there are no specific testing certifications for products used below freezing temperatures.*

**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 All Season Blend is cloudy, blueish white in composition and has a clean fresh smell.



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Section 4: First-Aid Measures

After skin contact: Rinse skin with water.
After eye contact: Immediately flush eyes with water.
After inhalation: Negligible in an aerated environment.
After swallowing: Do not swallow. May cause irritation.

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 -50°F to 120°F in closed containers to prevent evaporation and/or deterioration. Freezing will not damage material.

Section 8: Exposure Controls/Personal Protection

General protective and hygienic measures: Wash hands prior and after handling as per general hygiene measures. Where safety goggles as per normal protocol if risk of splashing. No additional protective equipment required.

Section 9: Physical and Chemical Properties

Form: cloudy, blueish-white, surfactant blend wetting agent-liquid
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)



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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 -50°F and 120°F

Separation on Standing: No separation when standing

Decomposition products: Aerobic environment: Carbon dioxide, water, mineral salts

Section 11: Toxicological Information

Toxicity: Cold Fire primary component of Cold Fire All Season Blend:

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 LC50 of 105 ppm.

Section 12: Ecological Information (non-mandatory)

Biodegradability: Product is 100% biodegradable in an active aerobic 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)

Cold Fire, primary component of All Season Blend- is 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

****Note: Cold Fire All Season Blend which is a special formulation of Cold Fire designed to reach temperatures below freezing has not been separately tested by UL as there is no testing certification for below freezing fire suppressing agents.***

***International:**

Chile: Cold Fire has been 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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