

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 All Season Blend
Chemical Identifier: CF-302ASB
Product Usage: Wetting agent used to extinguish Class A, B & D fires.
CANNOT BE DILUTED. MUST USE IN CONCENTRATION FORM.
**Please note there are no specific testing certifications for products designed to perform below freezing temperatures.*
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

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, bluish white in composition and has a clean fresh smell.

SECTION 4: FIRST-AID MEASURES

Skin: Flush affected area and wash with water.

Eyes: Immediately flush eyes with water for at least 15 minutes as per OSHA standards. Seek medical aid if irritation persists.

Inhalation: Negligible

Ingestion: Do not ingest.

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: 7-8 in concentrate form. DO NOT DILUTE.

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 -50°F & 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 All Season Blend is a special formulation of Cold Fire fire suppressing agent, designed to perform in below freezing temperatures. Cold Fire All Season blend has not been tested by UL as there are no testing protocols and/or certifications for fire suppression agents designed to perform below freezing temperatures.

SECTION 16: OTHER INFORMATION

SDS date of preparation / update: October 1, 2022