



Cold Fire is an environmentally safe fire extinguishing agent, specifically designed to rapidly suppress and extinguish fires, cool hot surfaces, prevent reignition, and encapsulate hydrocarbons. Cold Fire contains no PFAS, is safe to store, handle, and use, leaves virtually no residue, is biodegradable, and is neither toxic nor corrosive.

SECTION 1: IDENTIFICATION

Manufacturer: FireFreeze Worldwide, Inc.
Distributor: Engineered Fire Piping S.L.
Phone: +31 925 53 62 91
Email: gas.suppression@firepiping.com

Product Name: Cold Fire.
Chemical Identification: CF-302
Product Use: UL-listed wetting agent for Class A and B fires.
Can be used on Class D, K, and C fires with the appropriate extinguishing equipment.
International Certifications: Certified by APPLUS for lithium-ion battery fires.

SECTION 2: HAZARD IDENTIFICATION

Hazardous Materials Identification System

Health: 0
Flammability: 0
Reactivity: 0
Personal Protection: 0

The product may be slippery in its concentrated form. No component is hazardous or included in the NIOSH recommendations for the 1988 Occupational Safety and Health Standards, nor is it listed under SARA, CERCLA, or RCRA. No Permissible Exposure Limits have been established by the European Agency for Safety and Health at Work for any of the proprietary ingredients.

SECTION 3: COMPOSITION INFORMATION

Patented formula and components classified as trade secrets. Its composition is environmentally friendly, consisting of water, biodegradable anionic and non-ionic surfactants, organic and mineral compounds that have been tested free of PFAS (perfluoroalkyl and polyfluoroalkyl substances). Cold Fire is transparent with a clean and fresh scent.

SECTION 4: FIRST AID MEASURES

After skin contact: Wash the skin with water.
After eye contact: Rinse eyes with water.
After inhalation: Not hazardous.
After ingestion: Do not ingest. Not considered toxic via oral exposure.

SECTION 5: FIRE-FIGHTING MEASURES

Non-flammable: Contains no hazardous combustion components. Water-based product; will not self-ignite.

SECTION 6: ACCIDENTAL RELEASE MEASURES

In case of spill: Wash the affected area with water and allow it to dry.
Environmental disposal measures: 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 normal conditions for its intended use, no special ventilation is required.
Protective gloves: Use if prolonged skin contact occurs, as natural surfactants may dry the skin.
Eye protection: Use if necessary to prevent potential eye contact.
Storage: Store at temperatures between 0°C and 49°C in sealed containers to prevent evaporation and/or degradation.
Shelf life: Cold Fire has an indefinite shelf life when stored in closed containers within a controlled temperature environment.

SECTION 8: CONTROL AND PERSONAL PROTECTION

General protection and hygiene measures: Wash hands before and after handling as a hygiene precaution. No special protective equipment is required.





SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear mixing wetting agent.
Odor: Fresh and clean.
pH: 6-8 pH in concentrate form. Neutral in diluted form.
Vapor Pressure: Analogous to water.
Specific Gravity: 1.02 at 16°C
Solubility/Miscibility with Water: 100% soluble.
Viscosity: 71 centipoise.
Surface Tension: 30.2 dynes/cm (concentrate)

SECTION 10: STABILITY AND REACTIVITY

Reactivity: None.
Incompatibility: None.
Chemical Stability: The product is stable.
Corrosion: The product is not corrosive. Tested according to DOT 49 CFR 173.136.
Separation Temperature: No separation when stored between 0°C and 55°C.
Hazardous Decomposition Products: Carbon monoxide and carbon dioxide.

SECTION 11: TOXICOLOGICAL INFORMATION

Toxicity: According to the U.S. EPA Office of Pollution Prevention and Toxics criteria for classifying the acute toxicity of chemicals in the aquatic environment, Cold Fire is considered low hazard.

-96-hour acute toxicity to freshwater algae (selenastrum capricornutum) IAW 40 CFR 797.1050: showed Cold Fire to be algacidal at concentrations above 750 ppm.
-96-hour acute toxicity to juvenile rainbow trout (oncorhynchus mykiss) IAW 49 CFR 797.1400: showed an LC of 105 ppm.

SECTION 12: ECOLOGICAL INFORMATION

Biodegradability: The product is 100% biodegradable in an active environment within 21 days.

The product is PFAS-free.

SECTION 13: DISPOSAL CONSIDERATIONS

Disposable as non-hazardous waste according to local regulations.

SECTION 14: TRANSPORT INFORMATION

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

SECTION 15: REGULATORY INFORMATION

- UL registered wetting agent for Class A and B fires. Tested in accordance with NFPA 18 Wetting Agents, UL 162 and UL 711.
- ULC (Canada) registered wetting agent for Class A and B fires. C-175
- EPA-SNAP listed as an alternative to Halon for fire suppression.
- PFAS free

Certificación APPLUS+ para protección contra incendios por fuga térmica en baterías de Ion Litio para:

- Sistemas de rociadores automáticos
- Agua nebulizada a alta presión
- Bocas de Incendio Equipadas (BIEs)
- Extintores portátiles según la NTA8133

SECTION 16: OTHER INFORMATION

SDS Preparation/Update Date: July 20, 2022

