

COLD FIRE®

Fire Suppressing Agent
Safety Data Sheet



Cold Fire is an environmentally friendly fire suppressing agent, specially designed to extinguish Class A, B, and D fires. Cold Fire has a rapid cooling effect, which provides rapid extinguishment, prevention of re-ignition, and the encapsulation of hydrocarbons. The product is safe to store, handle and use, leaves virtually no residue and is environmentally friendly, nontoxic, non-corrosive, and biodegradable.

Section 1: Identification

Manufacturer: Firefreeze Worldwide, Inc.
Address: 272 Route 46 E., Rockaway, N.J. 07866
Phone: (973) 627-0722 **Fax:** (973) 627-2982
Email: Info@firefreeze.com
Formulation: CF302
Trade Name: Cold Fire Product
Usage: Class A, B, D & K fire suppressant agent.
Not recommended for Class C fires

Section 2: Hazard Identification

HMIS RATING: Health: 0 Flammability: 0 Reactivity: 0

Product may be slippery in concentration form.
No components are believed to be hazardous or listed in the NIOSH Recommendations for Occupational Safety and Health Standards, 1988, or are listed as hazardous by SARA, CERCLA, or RCRA. No OSHA PEL's are established for any of the ingredients.

Section 3: Composition

Components are classified trade secret.

Cold Fire is an environmentally friendly fire suppressing agent composed of natural water based surfactants and other natural plant based ingredients. Cold Fire is a clear liquid with a fresh smell that leaves no residue and biodegrades in 21 days.

Section 4: First Aid

Skin: Rinse with water.
Eyes: Immediately flush eyes with water.
Inhalation: Negligible
Ingestion: Not considered to be orally toxic.

Section 5: Fire Fighting Measures

Components are classified trade secret.

Non flammable: Water based product, will not ignite.

Section 6: Accidental Release

Spill or Leak Procedure: Rinse affected area with water.

Waste Disposal Method: Dispose as non-hazardous waste in accordance with local regulations.

Section 7: Handling and Storage

Respiratory Protection: Not required

Ventilation: Under ordinary conditions of use for its intended purpose, no special ventilation is required.

Protective Gloves: Wear if there is prolonged skin contact.

Eye Protection: Wear if needed to prevent reasonable probability of eye contact.

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

Section 8: Exposure Control Measures

Avoid prolonged skin contact with concentrate, wash hands after handling. Wear eye protection where required.

More



Australia ■ PHONE: 1300 88 3473 ■ EMAIL: info@firesys.com.au WEB: www.firesys.com.au



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Section 9: Physical And Chemical Properties

Boiling Point:	212°F.
Vapor Pressure (mm Hg):	Same as water.
Solubility in water: 1	00%
Specific Gravity:	1.02 @ 60°F.
pH:	~6.8 (concentrate) Neutral when diluted
Appearance and Odor:	Clear liquid, fresh smell

Section 10: Stability And Reactivity

Stability:	Product is stable
Incompatibility:	None
Hazardous Polymerization:	Will not occur.
Hazardous Decomposition Products:	Carbon monoxide and carbon dioxide.

Section 11: Toxicological Information

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

Toxicity: In accordance with U.S. EPA Office of Pollution Prevention and Toxics criteria for ranking the acute toxicity of chemicals in the aquatic environment, ColdFire 302 is considered to be of low concern.

96 hour acute toxicity versus freshwater alga (*Selenastrum capricornutum*) IAW 40 CFR 797.1050 showed ColdFire 302 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.

The information presented in this SDS is believed to be factual. However, nothing contained in this information is to be taken as a warranty of any kind by Firefreeze Worldwide, Inc. The user should review any recommendations, in the specific context of the intended use, to determine whether they are appropriate.

Section 12: Ecological Information

No Data Available

Section 13: Disposal Considerations

Dispose as non-hazardous waste in accordance with 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

NFPA-18:	UL Classified Wetting Agent 2N75
EPA SNAP:	Significantly new alternative policy program, listed by the EPA as a substitute for Halon 1211.

Section 16: Other Information

Preparation/Revision Date: February 5, 2016 – Rev. 1.0



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Fire Extinguishing Agent Cold Fire Concentrated Format

Cold Fire is a liquid agent designed as a water enhancer for the extension of fires, rapidly cooling the heat of the affected surface and encapsulating the hydrocarbon particles in a gaseous state, preventing its re-ignition. Formulated for all kinds of fires according to NFPA regulations: A, B, C, D and K.

Product Characteristics

- German formulation patented in the US, with national and international certifications.
- Agent soluble in water and does not require special cleaning once applied.
- Ecological Solution, 100% Eco-friendly, non-toxic, non-corrosive, neutral pH, 100% biodegradable and leaves no residue when dry.
- Indefinite guarantee, complying with the storage requirements of the product.
- Decontaminates black smoke, encapsulating hydrocarbon particles in a gaseous state, preventing re-ignition.
- Creates a fire retardant protective shield when applied.
- In an emergency it can be applied directly on people and reduce the risk of burns due to fire or extreme heat, in turn it can be applied to fabrics or mouth covers and breathe through it, filtering hydrocarbons from the smoke.

Especification

Brand Name:	Cold Fire
Format:	20 - 200 - 1.000 [Lt]
Extinguishing Agent:	ColdFire
Cold Fire Certifications:	UL, ULC, EPA-SNAP, Cesmec Bureau Veritas

Cold Fire Applications (types of fire)



Kitchens Fire



Industrial Fire



Forestal Fire



Mining Fire



Rubber Fire



Fires in Landfills



Storage Fire



Fire of Chemical Products



Refineries Fire

ColdFire Mixture for Different Classes of Fire

A		Solid Materials: Wood, paper, cardboard, cloth, plastic	1% ColdFire 99% Water
B		Flammable liquids: Paint, gasoline, oil and derivatives	3% ColdFire 97% Water
C		Electrical: Electrical equipment or installations	3% ColdFire 97% Water
D		Combustible metals: Sodium, potassium, magnesium, aluminum	10% ColdFire 90% Water
K		Commercial Kitchens Cooking fats and oils	6% ColdFire 94% Water