COLD FIRE↓ Fire Suppressing Agent

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 reignition, and the encapsulation of hydrocarbons. The product is safe to store, handle and use, leaves virtually no residue, is environmentally friendly, non-toxic, non-corrosive, and biodegradable.

Capabilities							
Fire Suppressing Power	• Quickly snuffs out fires. "cools" burning fuel on contact. Prevents reignition by encapsulating fuel source. Retards smoke generation. Cools rapidly.						
Applications:	Class A, B and D fires of all types.						
Cleanup:	None needed. Foam layer dissipates without leaving residue. Product biodegrades rapidly. Oil molecules do not form a tight emulsion with the suppressing solution.						
Dispersant Capability:	Low. Treated oils are not dispersed in water.						
	Characteristics						
pH:	pH of concentrate is 6.15. Neutral when diluted.						
Flash Point:	Negligible.						
Boiling Point:	212 4 .						
Odor:	Mild fresh scent. Does not contain d-limoneses. Clear color.						
Water Solubility:	Complete.						
Shelf Life:	Indefinite when stored in closed containers between $32 \oplus 120 \oplus .$						
Dilution Strength:	Use at strengths of 0.15% to 10% in any type of water.						
Residue:	Agent layer dissipates rapidly. Product leaves no residue.						
	Environmental and Safety Considerations						
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Biodegradability:	100% in 21 days under ideal conditions.						
Hazardous Components:	No components are listed in the NIOSH Recommendations for Occupational Health Standards, 1988, or are defined as hazardous by SARA, CERLA, or RCRA. No OSHA PEL's are established for other ingredients.						
Handling:	Suppressor is neutral. It will remove oil from the skin and may irritate the eyes if sprayed directly into them. When handling bulk concentrate, eye protection,						

Disposal:	Suppressant itself may be disposed through municipal systems.
	chemicals.
	splashing, prolonged exposure to vapor, or prolonged skin contact, as with all
	gloves, and impervious clothing should be worn when there is danger of
	in sprayed directly into them. when handning burk concentrate, eye protection,

MATERIAL SAFETY DATA SHEET COLD FIRE \checkmark

SECTION I - IDENTIFICATION

Manufacturer: Address: Phone: **Date Prepared:** Trade Name: **Product:**

FIREFREEZE Worldwide, Incorporated 272 Route 46, Rockaway, N.J. 07866 (973) 627-0722 Fax: (973) 627-2982 JANUARY 4, 2014 Formulation #: JG302 Cold Fire 302 Class A:B:D fire suppressing agent

SECTION II - INGREDIENTS AND HAZARD CLASSIFICATION

Components are classified trade secret. 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 other ingredients.

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

212₽. **Boiling Point:** Solubility in water: 100% pH: 6.15 (concentrate) Neutral when diluted Vapor Pressure (mm Hg): Same as water. Specific Gravity: 1.02 @ 60 ₽. Clear liquid, fresh smell. Appearance and Odor:

SECTION IV - FIRE AND EXPLOSION DATA

Flash Point: Not applicable LEL: Not applicable. **Extinguishing Media:**

Flammable Limits: UEL:

Not applicable.

Not applicable.

Special Fire Fighting Procedures: None.

Unusual Fire and Explosion Hazards: None.

Non-flammable.

SECTION V - REACTIVITY DATA

<u>Stability</u>: Stable. Incompatibility: None. Hazardous Decomposition Products: Carbon monoxide and carbon dioxide. **Hazardous Polymerization:** Will not occur.

SECTION VI - HEALTH HAZARD DATA

<u>Exposure Limits</u>					
OSHA PEL:	Not established.			ACGIII TLV:	Not established.
Routes of Entry					
Inhalation:	Yes	Skin:	Yes	Ingestion:	Yes

Signs and Symptoms of Exposure

Negligible hazard. Not a primary skin irritant. Liquid is neutral with pH 7.5. Dermal irritation Skin: testing for 72 hours on albino rabbits showed no erythema and no edema. Eyes: Not considered to be a primary ocular irritant. Inhalation: Negligible. Ingestion: Not considered to be orally toxic. First Aid Eyes: Immediately flush eyes with water. Skin: Rinse with water. Inhalation: Negligible. Remove to fresh air. Drink water. Ingestion:

Carcinogenicity

NTP? No IARC? No OSHA Regulated? No

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

Spill or Leak Procedures

Rinse affected area with water.

Waste Disposal Method

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

Storage and Handling Precautions

Store in temperatures from $32 \oplus$ to $120 \oplus$ in closed containers to prevent evaporation and deterioration. Freezing will not damage material as long as container remains intact.

Other Precautions

Although components have low hazard levels, the product will remove oils from the skin like the common soap. Avoid prolonged skin contact.

SECTION VIII - CONTROL MEASURES

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.

SECTION IX - HAZARD CLASSIFICATION

IMO Hazard Class and Number: Non-hazardous. **US DOT Hazard Class:** Not regulated by DOT

<u>UN Number</u>: Not applicable. <u>US DOT Identification Number</u>: Not applicable.

SECTION X - REGULATORY INFORMATION EPA SNAP: Significantly New Alternative Policy Program Listed.

Cold Fire ψ is listed by the EPA as a substitute for Halon 1211.

HMIS Rating: Health: 0 Flammability: 0 Reactivity: 0

SECTION XI- ENVIRONMENTAL DATA

 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 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.

SECTION XII- TRANSPORTATION

PRODUCT NAME:Cold Fire – Fire Suppressing Agent (CF302) – Wetting AgentHAZARD CLASS:Non HazardousID NUMBER:CF302PACKING:Bulk 55 Gallon Plastic DrumLABEL:UL Listed Wetting Agent 2N75

- No hazard condition exists for transportation. Product is water based, environmentally safe.

- HMIS rating is 0,0,0

FIREFREEZE Worldwide, Inc. 272 Route 46, Rockaway, N.J. 07866 Tel: (973) 627-0722 Fax: (973) 627-2982

- Product can be disposed of on land or in water with no harm to environment.
- Product may be slippery in concentrate form.

The information presented in this MSDS 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.