COLD FIRE® is a fire suppressing agent specially formulated to rapidly snuff out Class A,B,D and K fires. Prevents reflash, safe to store, handle and use, leaves virtually no residue, and is environmentally friendly. The chemical is water soluble and rapidly biodegradable. On Class B oil fires, the chemical encapsulates the oil and prevents burning and reignition. Has the advantages of foam and dry chemical without mess, specialized apparatus or contamination to our environment. COLD FIRE® can be used in pumpers and all types of multi-use portable equipment.

**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.

**PHYSICAL/Chemical Characteristics**
- **Boiling Point:** 212° F.
- **Vapor Pressure (mm Hg):** Same as water.
- **Solubility in water:** 100%
- **Specific Gravity:** 1.02 @ 60° F.
- **pH:** 6.15 (concentrate). Neutral when diluted

**FIRe AND EXPLOSION DATA**
- **Flash Point:** Not applicable.
- **Flammable Limits:** Non-flammable.
- **LEL:** Not applicable.
- **UEL:** Not applicable.
- **Extinguishing Media:** Not applicable.
- **Special Fire Fighting Procedures:** None.
- **Unusual Fire and Explosion Hazards:** None.

**REACTIVITY DATA**
- **Stability:** Stable.
- **Incompatibility:** None.
- **Hazardous Decomposition Products:** Carbon monoxide and carbon dioxide.
- **Hazardous Polymerization:** Will not occur.

**HEALTH HAZARD DATA**
- **Exposure Limits:**
  - OSHA PEL: Not established.
  - ACGIH TLV: Not established.
- **Routes of Entry**:
  - Inhalation: Yes.
- **Skin:**
  - Ingestion: Yes.
  - Signs and Symptoms of Exposure:
    - Skin: Negligible hazard. Not a primary irritant. Dermal irritation 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. Ingestion: Drink water.
  - Carcinogenicity:
    - NTP: No
    - IARC? No
- **OSHA Regulated?** No

**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° F to 120° F 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 common soap. Avoid prolonged skin contact.

**REGULATORY INFORMATION**
- **EPA SNAP:** Significantly New Alternative Policy Program Listed. Cold Fire® is listed by the EPA as a substitute for Halon 1211.
- **HMIS Rating**:
  - Health: 0
  - Flammability: 0
  - Reactivity: 0

**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 Toxic 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 797.1400 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 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. or RDR Technologies. The user should review any recommendations, in the specific context of the intended use, to determine whether they are appropriate.