FIRESTOPPER
Chemicals and Technologies Company, Inc.

# MATERIAL SAFETY DATA SHEET

**FIRESTOPPER PFE-FR (FFC)**
*An ENVIRO-SAFE® WET-CHEM*
(A Fire Extinguishing Clean gent) ™

## 1. PRODUCT AND COMPANY IDENTIFICATION

| | |
|---|---|
| **Product Name** | *FireStopper® PFE-FR (FFC) an ENVIRO-SAFE® WET-CHEM (A Fire Extinguishing Clean gent)* |
| **Manufacturer/Supplier** | FireStopper® Chemicals and Technologies Company, Inc. |
| **Address** | P.O. Box 655, Pacific Palisades, CA 90272, USA |
| **Phone Number** | (01) 904-334-4407 |
| **MSDS Date:** | January 15, 2008 |

*This MSDS has been compiled in accordance with - EC Directive 91/155/EC - OSHA's Hazcom Standard (29 CFR 1910.1200)*

## 2. COMPOSITION/INFORMATION ON THE COMPONENTS

| Component Name | CAS#/Codes | Concentration | R Phrases | EU Classification |
|---|---|---|---|---|
| PFE-FR (FFC) | A proprietary aqueous solution, composed of organic and inorganic compounds | | | |

## 3. HAZARD IDENTIFICATION

**EU Main Hazards**
**NON-HAZARDOUS LIQUID**

**THE PROPRIETARY INGREDIENTS IN THIS FORMULA ARE TRADE SECRETS. THE FORMULA IS THE PROPERTY OF THE FIRESTOPPER CHEMICALS & TECHNOLOGIES CO. INC. THE MIXTURE HAS BEEN INDEPENDENTLY TESTED AND FOUND TO BE NOT AN EYE OR SKIN IRRITANT AND IS NON-TOXIC WHEN TESTED ACCORDING TO THE FHSA PROTOCOLS. IT IS JUDGED TO POSE NO CHRONIC HEALTH HAZARD AND NON-HAZARDOUS TO FISH.** ***Under European standards (OECD 301 part A-E), FFC's meet "green" qualification.*** *The FFCs require no special labeling or chronic health hazard warning statements and comply with FHSA regulations, 16 CFR 1500 and California Proposition 65.*

## 4. FIRST AID MEASURES

**Eyes:** Remove contact lenses. Rinse thoroughly with plenty of water, also under the eyelid and call a physician immediately.

**Skin:** Wash affected area with soap and water. Obtain medical attention if irritation persists.

**Ingestion:** Dilute by drinking large quantities of water and obtain medical attention.

**Inhalation:** Move victim to fresh air. Obtain medical attention immediately for any breathing difficulty.

**Advice to Physicians:** Treat symptomatically.

## 5. FIRE FIGHTING MEASURES

**Extinguishing Media**
This preparation is used as an extinguishing agent and therefore is not a problem when trying to control a blaze. Use extinguishing agent appropriate to other materials involved. Keep pressurized extinguishers and surroundings cool with water spray as they may rupture or burst in the heat of a fire.

**Unusual Fire and Explosion Hazards**
Pressurized containers may explode in high heat of fire.

**Protective Equipment for Fire-Fighting**
Wear full protective clothing and self-contained breathing apparatus as appropriate for specific fire conditions.

## 6. ACCIDENTAL RELEASE MEASURES

Absorb with cloth or any other liquid absorbing material. Prevent skin and eye contact whenever possible. Wear appropriate protective equipment.

## 7. HANDLING AND STORAGE

Pressurized extinguishers should be properly stored and secured to prevent falling or being knocked over. Do not drag, slide or roll extinguishers. Do not drop extinguishers or permit them to strike against each other. Never apply flame or localized heat directly to any part of the extinguisher or plastic container. Store pressurized extinguishers and plastic containers away from high heat sources. Storage area should be: - cool - dry - well ventilated - under cover - out of direct sunlight

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Occupational Exposure Standards**
Occupational exposure limits are listed below, if they exist.
**NONE**
**Engineering Control Measures**
Use with adequate ventilation. There should be local procedures for the selection, training, inspection and maintenance of this equipment. When used in large volumes, use local exhaust ventilation.
**Respiratory Protection**
Not normally required.
**Hand Protection**
Not normally needed when used as a portable fire extinguisher. Use gloves if irritation occurs.
**Eye Protection**
Chemical goggles or safety glasses with side shields.
**Body Protection**
Normal work-wear.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical State** Liquid
**Color** Clear to slightly hazy
**Odor** mild
**Specific Gravity** 1.210 – 1.260
**Boiling Range/Point (°C/F)** Not applicable

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Flash Point (PMCC) (°C/F)** Not Flammable
**Solubility in Water** Soluble
**Vapor Density** Not applicable
**Vapor Pressure** Not applicable
**Evaporation Rate** Not applicable

## 10. STABILITY AND REACTIVITY

**Stability**
Stable under normal conditions.
**Conditions to Avoid**
- Heat - High temperatures
**Materials to Avoid**
- Strong oxidizing agents - strong acids -
**Hazardous Polymerization**
Will not occur.
**Hazardous Decomposition Products**
- oxides of carbon – nitrogen oxides

## 11. TOXICOLOGICAL INFORMATION

**Please see Section 2 Hazardous components statement**

## 12. ECOLOGICAL INFORMATION

**Please see Section 2 Hazardous components statement**

## 13. DISPOSAL

Dispose of container in accordance with all applicable local and national regulations (this container is 100% recyclable). Do not cut, puncture or weld on or near to the container. No harm to the environment is expected from this preparation.

## 14. TRANSPORT INFORMATION

**DOT CFR 172.101 Data** Not regulated
**UN Proper Shipping Name** Not regulated
**UN Class** None
**UN Number** None
**UN Packaging Group** None

## 15. REGULATORY INFORMATION

**SARA Title III Sect. 311/312 Categorization**
- Immediate (Acute) Health Hazard
**SARA Title III Sect. 313**
This product does not contain any chemicals that are listed in Section 313 at or above de minimis concentrations.

## 16. OTHER INFORMATION

**NFPA Ratings**
NFPA Code for Health - 0
NFPA Code for Flammability - 0
NFPA Code for Reactivity - 0
NFPA Code for Special Hazards - None
**HMIS Ratings**
HMIS Code for Health - 0
HMIS Code for Flammability - 0
HMIS Code for Reactivity - 0
HMIS Code for Personal Protection - See Section 8
**Abbreviations**
N/A: Denotes no applicable information found or available
CAS#: Chemical Abstracts Service Number
ACGIH: American Conference of Governmental Industrial Hygienists
OSHA: Occupational Safety and Health Administration
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
STEL: Short Term Exposure Limit
NTP: National Toxicology Program
IARC: International Agency for Research on Cancer
R: Risk
S: Safety

## OTHER INFORMATION

Chemicals in this product are not covered under specific State regulations, as denoted below:

**Alaska - Designated Toxic and Hazardous Substances: None**
**California – Permissible Exposure Limits for Chemical Contaminants: None**
**Florida – Substance List: None**
**Illinois – Toxic Substance List: None**
**Kansas – Section 302/303 Lists: None**
**Massachusetts – Substance List: None**
**Minnesota – List of Hazardous Substances: None**
**Missouri – Employer Information/Toxic Substance List: None**
**New Jersey – Right to Know Hazardous Substance List: None**
**North Dakota – List of Hazardous Chemicals, Reportable Quantities: None**
**Pennsylvania – Hazardous Substance List: None**
**Rhode Island – Hazardous Substance List: None**
**Texas – Hazardous Substance List: No**
**West Virginia – Hazardous Substance List: None**
**Wisconsin – Toxic and Hazardous Substances: None**
**California Proposition 65: No component is listed on the California Proposition 65 lists.**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The above information related only to the specific material(s) designated herein and may not be valid for such material(s) used in combination with any other materials or in any process or if the material is altered or processed, unless specified in this text.