

# **FIRECHIEF<sup>®</sup>**

## **STRIKE FX<sup>™</sup>**

AUTOMATIC FIRE EXTINGUISHER SYSTEM

### Automatic Fire Extinguishing System

#### What is Strike FX?

Strike FX is a self seeking automatic fire extinguishing system that requires no electrical power to operate. In the event of a fire the tube will rupture at the hot spot and discharge the extinguisher contents directly onto the source of the fire.

#### How it works

Strike FX systems uses a specialised polymer detection tube which is pressurised. The tube is routed through the compartment that needs protecting, secured in place with fixings, thus being right at the source of any fire. When a fire occurs and either touches the tubing or the heat is sufficiently high, the Strike FX tube wall softens and bursts at the hottest point allowing the extinguishing medium to extinguish the fire at source.

#### Advantages of Strike FX

- Strike FX is simple and inexpensive to fit.
- Strike FX does not rely on any electrical or moving parts.
- Extinguishes a fire at the source via the Strike FX tubing.
- Offers 24/7 protection.
- Pressure switches can be fitted to automatically shut down any machinery, systems or sound alarm.
- Strike FX Systems are available in a variety of sizes ranging from 1kg to 6kg.

#### Applications

Strike FX Systems can be used to protect many micro-environments.



**Electrical cabinets,  
Controls &  
CNC Machines**  
Server cabinets,  
computers, welding  
machines, food industry



**Vehicles/Boats**  
Buses, trucks, emergency  
vehicles, marine craft,  
trains



**Industrial Equipment**  
Plant machinery, farming  
machinery, forklifts



**Any  
micro-environment**  
Letter boxes, bins, safes,  
vending machines



## Units available

- FM200
- ABC Dry Powder

As a general rule of thumb, 1kg of either extinguishant will protect 1 cubic metre, but in a well sealed enclosure this may be extended by 50%.

Extinguisher Capacity	Approx Gross Weight	Working Pressure BAR	Temperature Range	Tube Erupts at	Minimum Space requirements		
					Height (cm)*	Width (cm)	Depth (cm)**
1kg	2.2kg	13	-10°C - +65°C	165°C	38	9	11
2kg	3.5kg	13	-10°C - +65°C	165°C	41	11	11
4kg	7.0kg	13	-10°C - +65°C	165°C	51	19	17
6kg	10.5kg	13	-10°C - +65°C	165°C	56	19	17

\*including minimum radius of detection tube

\*\*allowing for mounting bracket

## Options

- Pressure switch, can be fitted to the unit and will provide an optional facility to sound alarms or shut down machinery/air conditioning units etc.
- End of Line Gauge, this can also be used as a filling port as well as an indicator.
- Tubing length can range to suit your particular application.
- Branding available with minimum quantities.

**homesaver**  
fire safety equipment

**MATERIAL SAFETY DATA SHEET 1**

**IDENTIFICATION OF ARTICLE / PREPARATION AND THE COMPANY**

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- 1.1 PRODUCT IDENTIFICATION:** Fire Extinguisher [Portable] Heptafluoropropane (FM200) type.
- 1.2 APPLICATION AND USE:** Fire fighting equipment - for use on class A and B fires, and fires with electrical risk.
- 1.3 MANUFACTURER / SUPPLIER**  
Homesaver, Sentura House, 3 Lands End Way, Oakham, Rutland, LE15 6RB  
Tel [0808] 100 2090, Fax [0800] 028 2640.
- 1.4 ARTICLE DESCRIPTION**  
Metal cylinder / assembly, containing a fire extinguishing liquid gas, pressurised with a non flammable compressed gas.  
For use in emergency fire fighting / fire escape situations.
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- 2 COMPOSITION**  
**CONTAINER:** Metal cylinder / assembly.  
**EXTINGUISHANT:** Heptafluoropropane, HFC227ea [FM200].  
**PROPELLANT:** Compressed Air / Compressed Nitrogen. Non flammable – non toxic gas.
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**3 HAZARDS IDENTIFICATION**

Compressed gas, non-flammable. Receptacles containing gas under pressure.  
Gases under pressure.  
Overheating may cause pressure rise in cylinders, with risk of injury due to rupturing receptacle or uncontrolled discharging.  
Risk of rupturing or uncontrolled discharging due to mechanical shock / damage to fire extinguisher.  
Risk of 'cold burns'. Direct contact with liquid gas may cause 'cold burns' / frost bite. Risk of asphyxiation. In high concentrations the gas may cause asphyxiation without warning by replacing the oxygen in the air. The liquid gas may decompose in fire and produce toxic and/or corrosive vapours.

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**4 FIRST AID MEASURES**

Seek medical assistance, if serious injury is suspected due to rupturing or uncontrolled discharging of fire extinguisher.  
Seek medical treatment when anyone has adverse symptoms apparently due to inhalation of fire extinguisher contents or contact with skin or eyes.

**EXTINGUISHANT:**

**FIRST AID – INHALATION:** In low concentrations may cause narcotic effects. Symptoms may include dizziness, headache, nausea and / or loss of co-ordination. In high concentrations the gas can asphyxiate. Symptoms may include loss of mobility / consciousness. Victim may not be aware of asphyxiation. Remove person to uncontaminated area whilst wearing breathing apparatus. Keep person warm and rested. Apply artificial respiration if breathing stopped. Seek medical assistance.

**FIRST AID – SKIN:** In case of 'cold burns' / frostbite, spray with water for at least 15 minutes. Apply a sterile dressing. Seek medical assistance.

**MATERIAL SAFETY DATA SHEET 2**

**FIRST AID – EYES:** May cause damage upon contact. If there is contact with eyes, immediately flush eyes thoroughly with clean gently flowing water for at least 15 minutes. Seek medical assistance.

**FIRST AID – INGESTION:** Ingestion is not considered a potential route of exposure. [MSDS for extinguishant or propellant available on request].

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**5 FIRE FIGHTING MEASURES**

**SPECIFIC HAZARD** – Compressed gas, non-flammable. The fire extinguisher may rupture violently if overheated.

Ensure that all emergency services are aware of the presence of fire extinguishers near fire, and the potential of rupturing or 'rocketing' cylinders.

If possible and safe to do so, remove fire extinguishers away from fire.

Where fire extinguishers cannot be removed, keep cylinders cool by spraying them with water from a protected position.

In confined spaces use breathing apparatus, and protective clothing.

Extinguishant gas can cause asphyxiation in high concentrations.

Thermal decomposition of extinguishant gas may produce toxic / noxious fumes.

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**6 ACCIDENTAL RELEASE MEASURES**

**EXTINGUISHANT [HFC-227ea gas]**

**PERSONAL PRECAUTIONS:** Evacuate area. Ensure adequate ventilation. Thoroughly ventilate area.

Wear self contained breathing apparatus if it is necessary to enter the area unless atmosphere is proved to be safe.

**ENVIRONMENTAL PRECAUTIONS:**

**IF POSSIBLE AND SAFE TO DO SO**, close valve or stop the flow of product.

Prevent gas from entering basements, workpits and other low lying areas where accumulation could be dangerous.

Ensure adequate ventilation following any discharge.

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**7 HANDLING AND STORAGE**

**HANDLING:** This equipment is intended for emergency fire fighting use, and should be specifically and safely located for this purpose. Appropriate training in the safe use of this equipment should be given where possible.

Equipment should be maintained by competent persons to ensure safe operation.

Do not expose fire extinguishers to excessive heat or mechanical shock. Protect from weather. Handle / transport in strong outer packaging, designed and constructed to prevent inadvertent discharge of articles during normal conditions of transport. All discharge assemblies protected and secured by safety devices with seals properly fitted. **STORAGE:** Fire extinguishers should be packed / stored securely, protecting them from activation, in strong outer packagings.

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**8 EXPOSURE CONTROLS AND PERSONAL PROTECTION**

**EXTINGUISHANT [HFC-227ea gas]:** Ensure adequate ventilation. Do not smoke while handling product. Protect eyes, face and skin from liquid splashes. Keep breathing apparatus readily available for emergency use.

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### MATERIAL SAFETY DATA SHEET 3

#### 9 PHYSICAL AND CHEMICAL PROPERTIES

##### EXTINGUISHANT [HFC-227ea gas]:

Molecular weight: 165. Melting point: -160 deg C. Boiling point: -3.3 deg C. Critical temperature: 153 deg C.

Relative density, gas: 5.7 [air = 1]. Relative density, liquid: 1.8 [water = 1]. Vapour pressure 20 deg C: 2.5 bar. Appearance: Colourless liquid / gas. Odour: Sweetish, Poor warning properties at low concentrations.

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**FLAMMABILITY:** Non flammable.

Gas / vapour is heavier than air. May accumulate in confined spaces, particularly at or below ground level.

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#### 10 STABILITY AND REACTIVITY

Stable at normal temperatures and storage conditions.

Receptacles containing gas under pressure. Do not expose fire extinguishers to excessive heat / flame or mechanical shock.

**EXTINGUISHANT [HFC-227ea gas]:** Stable under normal conditions. Thermal decomposition yields toxic vapours.

Decomposes by reaction with high temperature [open flame, glowing metal surfaces, etc.] forming hydrofluoric acid, carbonyl fluorides, carbon monoxide and carbon dioxide.

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#### 11 TOXICOLOGICAL INFORMATION

**EXTINGUISHANT [HFC-227ea gas]:** May produce irregular heart beat and nervous symptoms.

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#### 12 ECOLOGICAL INFORMATION

**EXTINGUISHANT [HFC-227ea gas]:** Substance is not covered in the 'Montreal Protocol'.

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#### 13 DISPOSAL METHODS: This article must be disposed of as hazardous waste. Articles / fire extinguishers should be disposed of at a licensed waste management facility. Ensure the final destination is a licensed facility.

**EXTINGUISHANT [HFC-227ea gas]:** Treatment, storage, transportation, and disposal must be in accordance with applicable Governmental regulations. Must not be discharged to atmosphere. Do not discharge into areas where its accumulation could be dangerous.

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#### 14 TRANSPORT INFORMATION

UN No: 1044

HI No:

**PROPER SHIPPING NAME:** FIRE EXTINGUISHERS with compressed or liquefied gas.

**ADR CLASS:** 2

**ADR CLASSIFICATION CODE:** 6A

**LABELLING ADR:** LABEL 2.2 NON-FLAMMABLE NON-TOXIC GAS.

**TRANSPORT CATEGORY:** 3



**MATERIAL SAFETY DATA SHEET 4**

**OTHER TRANSPORT INFORMATION:**

Ensure vehicle driver is aware of the potential hazards of the load, and knows which action to take in the event of an accident or emergency.  
Before transporting fire extinguishers ensure that they are firmly stowed, correctly packaged and labelled with all discharge assemblies secured with safety devices and seals properly fitted. Ensure compliance with all applicable regulations.  
Avoid transport on vehicles where the load space is not separated from the drivers compartment. All transport conditions and actions required for the purposes of IMDG IATA ADR must be observed and applied where applicable.  
Fire extinguishers, containing compressed or liquefied gases under pressure above 175 kpa for expelling fire extinguishing contents.

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**15 REGULATORY INFORMATION OF EXTINGUISHANT [HFC-227ea gas]:**  
**RISK PHRASES:** R59 Dangerous for the ozone layer.  
**LABEL 2.2 NON FLAMMABLE – NON TOXIC GAS.**

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**16 OTHER INFORMATION**

MSDS for extinguishant or propellant available on request.

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**DISCLAIMER:** This information is based on our current knowledge and is intended to describe the article for purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific properties of the product. Homesaver cannot accept responsibility for any injury, loss or damage resulting from the use of this article.