GREEN CANYON VENTURES

FS-02

TECHNICAL DATA SHEET

FS-02 Fire Suppressant

Structural and industrial fires

VERSION	DATE	SUPERSEDES	MANUFACTURER
3	October 2026	V.2, Feb 2026	Green Canyon Ventures LLC

Description

FS-02 is a fire suppressant developed by Green Canyon Ventures in the United States to extinguish fires in any type of structure: houses, buildings, factories and more. It is used with standard firefighting equipment, with no modifications.

On contact with the heat of the fire, FS-02 triggers an endothermic reaction: it absorbs heat and releases large volumes of inert nitrogen gas, sharply lowering the temperature in the fire area and causing extinction.

Combined with the FS-03 foam agent, FS-02 is also used on fires involving petroleum products and other flammable liquids. Supplied as a liquid concentrate, mixed with fresh water or seawater before use.

Not classified as hazardous · Biodegradable · PFAS-free · Non-corrosive



Fire training tower used for the room fire test.

Composition

Nitrogen-based compounds (urea and ammonium salts) and water. Contains no PFAS.

Classification

Regulation	Classification
USA – OSHA HCS 29 CFR 1910.1200	Not classified as hazardous
EU – CLP Regulation (EC) 1272/2008	Not classified as hazardous
Canada – WHMIS 2015	Not classified as hazardous

Transport: not regulated as dangerous goods (US DOT, TDG, IMDG, IATA, ADR). Full details in the Safety Data Sheet (SDS v2.0).

Physicochemical properties

Property	Value
Appearance	Clear, yellowish liquid. It may become slightly cloudy over time without affecting performance.
Viscosity	5–10 cP
Density	1.27 g/cm³
pH	6.5–7
Freezing point	0 °C (32 °F)
Thermal resistance	Above 1,000 °C (1,832 °F)
Solubility	Soluble in water
Sediments	Very low
Shelf life	Approximately 2 years

Recommended applications

Class A fires, and Class B fires in combination with FS-03. Compatible with all types of materials, for any structure: buildings, homes, industries, airports, ports, offices and construction sites.

Mode of use

Mixing: 10% FS-02 in fresh water or seawater (10 L of FS-02 per 100 L of mix). Use the same equipment available to any fire department.

Apply the mix to the burning area with the nozzle slightly open to a wide pattern, wetting the whole affected area. The temperature drop and nitrogen release protect firefighters from radiant heat and let them approach the fire source safely, for much faster extinguishment.

> **Mixing ratios:** structural fires (Class A), 10% FS-02. Flammable-liquid fires (Class B), combined with FS-03: 15% FS-02 + 5% FS-03 in water. See the FS-03 Technical Data Sheet for the full protocol.

Equipment care

FS-02 is non-corrosive. Clean all equipment with plenty of water after use.

Packaging

- 1,000-liter (264 US gal) palletizable IBC totes.
- 10-liter (2.6 US gal) or 25-liter (6.6 US gal) jugs.

Safety and handling

Item	Information
Risks	Very low. Possible mild, transient eye irritation on contact.
First aid	Rinse the affected area with plenty of water.
Storage	1 °C to 50 °C (34 °F to 122 °F), in sealed containers, away from direct sunlight.
Emergency	USA 911 · Europe 112 · Green Canyon 24 h: USA/Canada +1 786 991 4134, Europe +34 687 17 30 70

Do not use on electrical fires. FS-02 contains water and conducts electricity.

Proven performance

Room fire test. A 15 × 13 ft (4.6 × 4 m) room set alight with gasoline and an accelerant was extinguished with a single 15 L (4 US gal) backpack of FS-02 mix, with 3.5 L (0.9 US gal) left over. More information: Structural Fires presentation, FS-02, at www.greencanyon.us.