GREEN CANYON VENTURES

SAFETY DATA SHEET

FS-01 / FS-02 Fire Suppressant

SDS VERSION	REVISION DATE	SUPERSEDES	EMERGENCY 24 H
2.1	2026-11-10	Version 2.0 (2026-10-01)	USA/Canada +1 786 991 4134 Europe +34 687 17 30 70

Prepared in accordance with OSHA Hazard Communication Standard 29 CFR 1910.1200 (as amended 2024, Appendix D) and GHS Rev. 10.

1 Identification

Item	Information
Product identifier	Fire Suppressant FS-01 / FS-02
Other means of identification	FS-01: wildland fires, aerial and ground application; supplied in two versions, standard (with ammonium sulfate) and ammonium-sulfate-free. FS-02: structural and industrial fires; one version.
Recommended use	Water-based fire suppressant concentrate, mixed with fresh water or seawater, for aerial and ground application on wildland and structural fires.
Restrictions on use	Not for human or animal consumption. Do not use on energized electrical equipment: the product contains water and conducts electricity. Use as directed on the technical data sheet.
Manufacturer and US responsible party	Green Canyon Ventures LLC, 1946 SW 9th Street, Miami, FL 33135, USA
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2 Hazard(s) identification

Classification: Not classified as hazardous under OSHA HCS 29 CFR 1910.1200 (2024). Not classified under EU CLP Regulation (EC) No 1272/2008 or Canada's Hazardous Products Regulations (WHMIS 2015).

Label elements: No GHS pictogram, signal word or hazard statement required.

Precautionary statements: None required. Recommended good practice:

- Avoid contact with eyes; protective gloves are recommended.
- Spilled product can make surfaces slippery.

Hazards not otherwise classified (HNOC): None.

Other hazards: Not persistent, bioaccumulative or toxic (does not meet the PBT or vPvB criteria). Contains no endocrine disruptors. Contains no PFAS.

Unknown acute toxicity: Not applicable; acute oral and dermal toxicity were tested on the mixture.

3 Composition / information on ingredients

Mixture.

Component	FS-01 standard	FS-01 ammonium-sulfate-free	FS-02
Water	Yes	Yes	Yes
Nitrogen compounds (urea and ammonium salts)	Yes	Yes	Yes
Natural clay (kaolin)	Yes	Yes	—
Minor additives (natural thickeners, colorant)	Yes	Yes	—

None of the ingredients is classified as a health hazard under OSHA HCS, or as hazardous under CLP or WHMIS, at the concentrations present. Under 29 CFR 1910.1200 Appendix D, only ingredients classified as health hazards must be identified in this section; specific identities and concentrations are withheld as confidential business information and are available to health professionals and authorities on request.

4 First-aid measures

Route	First aid
Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses if easy to do. If irritation persists, get medical advice.
Skin contact	Wash with soap and water. Remove contaminated clothing. Get medical advice if irritation develops.
Inhalation (spray mist)	Move to fresh air. Get medical advice if symptoms occur.
Ingestion	Rinse mouth. Do not induce vomiting. Get medical advice if a large amount is swallowed or if you feel unwell.

Most important symptoms and effects, acute and delayed: May cause mild, transient eye irritation and redness. Ingestion of large amounts may cause nausea or gastrointestinal upset. No delayed effects known.

Immediate medical attention and special treatment: Not normally required. Note to physician: treat symptomatically.

5 Fire-fighting measures

Suitable extinguishing media: The product is itself a fire suppressant. Use any media appropriate to the surrounding fire.

Unsuitable extinguishing media: None known.

Specific hazards arising from the chemical: None. The product is non-flammable. In a fire, as with any nitrogen-based material, decomposition may produce ammonia, nitrogen oxides, sulfur or phosphorus oxides, carbon monoxide and carbon dioxide.

Special protective equipment and precautions for firefighters: Standard firefighting protective gear.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures: No special precautions. Spilled product can make surfaces slippery. Gloves and eye protection are recommended.

Environmental precautions: Not classified as hazardous to the aquatic environment: aquatic toxicity results are far above classification limits (Section 12). As good practice, avoid releasing large quantities of undiluted concentrate into drains or small, enclosed water bodies.

Methods and materials for containment and cleaning up: Small spills: rinse with water. Large spills of concentrate: contain and recover for reuse where possible, or absorb with sand or earth (Section 13).

7 Handling and storage

Precautions for safe handling: No special precautions. Agitate the concentrate gently before decanting into clean containers. Wash hands after use.

Conditions for safe storage, including incompatibilities: Store in closed original containers (1,000 L IBC totes, 10 L or 25 L jugs), away from direct sunlight. Storage temperature: FS-01, −20 °C to 50 °C (−4 °F to 122 °F); FS-02, 1 °C to 50 °C (34 °F to 122 °F). Components may settle over time; agitate gently before use. Shelf life approximately 2 years. Store separately from bleach and strong oxidizers.

8 Exposure controls / personal protection

Occupational exposure limits: None. No component of the product, as supplied, has an applicable occupational exposure limit.

Engineering controls: None required. General ventilation is sufficient.

Personal protective equipment: Not required. As good practice, the following is recommended:

- Eyes: safety glasses.
- Hands: protective gloves.
- Respiratory: not required.

9 Physical and chemical properties

Typical values for the concentrate, from the 2026 technical data sheets.

Property	FS-01	FS-02
(a) Physical state	Liquid (suspension)	Liquid
(b) Color	Whitish; red for aerial application	Yellowish, transparent
(c) Odor / odor threshold	Odorless / not applicable	Odorless / not applicable
(d) Melting / freezing point	Melting point: not applicable. Freezing point: −20 °C (−4 °F)	Melting point: not applicable. Freezing point: 0 °C (32 °F)
(e) Initial boiling point	Approx. 100 °C (212 °F)	Approx. 100 °C (212 °F)
(f) Flammability	Not flammable	Not flammable
(g) Lower/upper flammability limits	Not applicable	Not applicable
(h) Flash point	None	None
(i) Auto-ignition temperature	Not applicable	Not applicable

(j) Decomposition temperature	Dried residue above approx. 130 °C (266 °F)	Dried residue above approx. 130 °C (266 °F)
(k) pH	6.5–7	6.5–7
(l) Viscosity	≥ 200 cP (dynamic); ≥ 148 mm²/s (kinematic)	5–10 cP (dynamic); approx. 4–8 mm²/s (kinematic)
(m) Solubility	Highly soluble in water	Soluble in water
(n) Partition coefficient (log Kow)	Not applicable	Not applicable
(o) Vapor pressure	Approx. 23 hPa at 20 °C (68 °F)	Approx. 23 hPa at 20 °C (68 °F)
(p) Density	1.35 g/cm³	1.27 g/cm³
(q) Relative vapor density	Not applicable	Not applicable
(r) Particle characteristics	Not applicable (liquid)	Not applicable (liquid)
Thermal resistance	Above 1,000 °C (1,832 °F)	Above 1,000 °C (1,832 °F)

10 Stability and reactivity

Reactivity: Not reactive under normal conditions of use and storage.

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous reactions: None under normal conditions of use. Do not mix with bleach (sodium hypochlorite): as with any product containing urea or ammonium compounds, the mixture can form chloramines.

Conditions to avoid: None under normal conditions.

Incompatible materials: Bleach (sodium hypochlorite) and strong oxidizers. Not corrosive to metals. Measured corrosion rates: aluminum 0.009 mm/year; copper 0.004 mm/year; cast iron 0.094 mm/year; brass 0.094 mm/year; stainless steel 0.002 mm/year.

Hazardous decomposition products: None under normal conditions. In a fire: ammonia, nitrogen oxides, sulfur or phosphorus oxides, carbon monoxide and carbon dioxide.

11 Toxicological information

Likely routes of exposure: Eye contact, skin contact, inhalation of spray mist, ingestion.

Acute toxicity (mixture). Product tested: FS-01 concentrate (sample as supplied). FS-02 was not tested separately; it contains no ingredient classified as hazardous, and these results are given as indicative for FS-02.

Endpoint	Method	Result
Oral LD50 (rat)	OECD 423	> 2,000 mg/kg bw: not toxic
Dermal LD50 (rat)	OECD 402	> 2,000 mg/kg bw: not toxic
Skin irritation	Clinical observations during the OECD 402 study (no separate OECD 404/439 study)	No signs of skin irritation observed
Eye irritation	OECD 437 (BCOP)	IVIS 8.74
Eye corrosion	OECD 405	Not corrosive; possible mild, transient irritation

Inhalation	—	No data; not expected to be toxic
Skin sensitization	—	No data; components are not known sensitizers

Symptoms: Possible mild, transient eye redness. Large ingestion may cause nausea.

Delayed, immediate and chronic effects: None known.

Germ cell mutagenicity, reproductive toxicity, STOT (single and repeated exposure), aspiration hazard: Not classified on the basis of available component data.

Carcinogenicity: No component at 0.1% or more is listed as a carcinogen by NTP, IARC or OSHA.

12 Ecological information

Ecotoxicity (mixture). Product tested: FS-01 concentrate (sample as supplied). FS-02 was not tested separately; it contains no ingredient classified as hazardous, and these results are given as indicative for FS-02.

Organism	Method	Result
Fish (*Danio rerio*)	OECD 203, 96 h	LC50 6,930 mg/L: not toxic
Aquatic invertebrate (*Daphnia magna*)	OECD 202, 48 h	EC50 > 10,000 mg/L: not toxic
Earthworm (*Eisenia fetida*)	OECD 207, 14 days	LC50 4,697.3 mg/L: not toxic

All aquatic results are far above 100 mg/L, the highest threshold for aquatic hazard classification under GHS. The product is not classified as hazardous to the aquatic environment.

Persistence and degradability: The organic components are biodegradable: OECD 302B (inherent biodegradability), 28 days: 100% for the product mixed with water (as applied); 96% for the concentrate. The inorganic components (ammonium, phosphate and sulfate salts) are not subject to biodegradation; they are taken up by plants and soil microorganisms or transformed in the nitrogen, phosphorus and sulfur cycles.

Bioaccumulative potential: Not expected; components are water-soluble with low log Kow.

Mobility in soil: Components are water-soluble. Urea and ammonium salts are common fertilizer nutrients, taken up by plants and soil microorganisms.

Other adverse effects: Contains no PFAS or ozone-depleting substances. Not PBT or vPvB.

13 Disposal considerations

The product is not a hazardous waste under RCRA. Unused product can be reused. Dispose of according to local regulations. Diluted product and rinse water may be discharged to the sanitary sewer where the local authority permits. Rinse empty containers and recycle them.

14 Transport information

Regulation	UN number	Proper shipping name	Hazard class	Packing group
US DOT	Not regulated	—	—	—
Canada TDG	Not regulated	—	—	—
IMDG	Not regulated	—	—	—

ICAO/IATA	Not regulated	—	—	—
ADR/RID	Not regulated	—	—	—

Environmental hazards / marine pollutant: No. **Transport in bulk (IMO instruments):** Not applicable. **Special precautions:** Protect from freezing.

15 Regulatory information

United States

- TSCA: All components are listed on the TSCA Inventory as Active.
- SARA Title III, Sections 302/304: No extremely hazardous substances.
- SARA Section 311/312 hazard categories: None.
- CERCLA: No component has a reportable quantity under 40 CFR 302.4.
- California Proposition 65: This product contains no chemicals known to the State of California to cause cancer or reproductive harm.
- USDA Forest Service: Not applicable.

Canada: All components are on the Domestic Substances List (DSL). Not a hazardous product under the Hazardous Products Regulations (WHMIS 2015).

European Union: Not classified under CLP Regulation (EC) No 1272/2008. Compliant with REACH Regulation (EC) No 1907/2006: all components are registered or exempt from registration. No substances on the SVHC Candidate List or restricted under Annex XVII. Contains no volatile organic compounds (VOC content: 0 g/L).

16 Other information

Item	Value
Date of preparation	2024 (first edition)
Date of last revision	2026-11-10
Version	2.1
Changes from previous version	Section 3: composition described by component type, in line with 29 CFR 1910.1200 Appendix D. Section 6: environmental precautions revised. Section 11: skin irritation method corrected; tested product identified. Section 12: tested product identified; biodegradability statement limited to the organic components. Section 15: regulatory information updated.
Prepared by	Green Canyon Ventures LLC

Abbreviations: ACGIH, American Conference of Governmental Industrial Hygienists; BCOP, bovine corneal opacity and permeability; CLP, Classification, Labelling and Packaging; DSL, Domestic Substances List; GHS, Globally Harmonized System; IVIS, in vitro irritancy score; PBT, persistent, bioaccumulative and toxic; vPvB, very persistent and very bioaccumulative; PEL, permissible exposure limit; SCBA, self-contained breathing apparatus; TLV, threshold limit value; TSCA, Toxic Substances Control Act.

Key references: Test reports held by Green Canyon Ventures LLC, available on request; OSHA 29 CFR 1910.1200 Appendix D; Regulation (EC) No 1907/2006 Annex II as amended by Regulation (EU) 2020/878.

Disclaimer: The information in this SDS is believed to be accurate as of the revision date. It describes the product for safety purposes only and is not a product specification or warranty. Users are responsible for determining the product's suitability for their use and for complying with applicable laws.