

Product Data Sheet (PDS) – Flamblocker CF7 (EN)

PDS production date: 6 February 2026

Product Data Sheet – Flamblocker CF7

Product name: Flamblocker CF7

Product type: Universal fire suppression liquid additive

Brand: Flamblocker / C-Fire Belgium

Application: Fire suppression and fire prevention

Website: www.flamblocker.com

1. Product description

Flamblocker CF7 is a multi-purpose, water-based fire suppression liquid designed for professional use. The agent combines strong cooling capacity with a chemical mode of action to limit flame spread and prevent re-ignition.

CF7 functions as a universal extinguishing agent effective across multiple fire classes and suitable for use in a wide range of systems and applications.

Flamblocker CF7 is a **liquid fire suppression additive** and **does not generate foam during application**. The product is **not classified as firefighting foam** and does not fall under foam-specific standards such as EN 1568.

2. Fields of application

- Industry, infrastructure and transport
- Energy systems and storage facilities
- Professional fire suppression systems
- OEM systems and sprinkler systems
- Systems with lithium-ion fire risks
- Public buildings and commercial environments
- Residential housing
- Forest and wildfires
- Scrap metal environments
- Solar installations

3. Fire class suitability

Flamblocker CF7 has been developed for use across multiple fire classes:

Fire class	Type of material / fire
A	Solid organic materials (wood, paper, textiles)
B	Flammable liquids (oil, petrol, chemicals)
D	Metal-related fire risks (application-dependent; including lithium-ion battery environments)
F	Cooking oils and fats
E	Electrical hazards (energised electrical equipment)

Note: Application on specific metal fires should be assessed in accordance with operational procedures and risk conditions.

4. Key properties

Property	Specification
Base	Water + fire suppression additive
Dilution	1–10% depending on application
Viscosity	Comparable to water
pH (20 °C)	approx. 7.0–7.5
Relative density	approx. 1.04–1.12 g/cm ³
Temperature range	–30 °C to +60 °C
Shelf life	Unlimited when stored correctly
Appearance	Colourless / transparent liquid
Environmental profile	100% biodegradable, PFAS-free, non-toxic, non-corrosive
Safety	No carcinogenic or corrosive components
HS code	38130000

5. Mode of action and benefits

Effective fire suppression technology:

- **Rapid cooling:** Strong heat absorption accelerates vapour formation and reduces fire temperature
- **Surface interaction effect:** Upon contact, an insulating effect reduces oxygen access to the burning material
- **Inert steam effect:** Reduces free radicals and heat, limiting re-ignition and improving overall safety
- **Environmentally responsible:** PFAS-free, biodegradable and aligned with current EU environmental requirements

6. Storage and handling

- Storage temperature: -30 °C to +60 °C
- Storage conditions: Cool, dry, sealed packaging; protect from direct sunlight
- Shelf life: Long-term > 20 years (unlimited when stored correctly)
- Packaging units: 20 L, 50 L, 200 L, IBC (other sizes available on request)

7. Compatibility and systems

Flamblocker CF7 can be used with:

- Conventional firefighting vehicles and systems
- Standard hoses, nozzles and water systems
- Sprinkler systems and water-based suppression systems
- Manual application methods
- Specialised suppression systems for lithium-ion and electrical fire risks

The product is designed for use **without the need for specialised dosing equipment**, depending on operational setup.

8. Health & safety

This document does not replace the Safety Data Sheet (SDS). For full health, safety and environmental information, the current SDS must be consulted.

9. Regulation and conformity

- **REACH / CLP:** Product classification and labelling are in accordance with EU requirements
- **PFAS status:** Fluorine-free and not containing PFAS substances
- **CE / UKCA:** Not applicable to the fire suppression liquid itself; may apply to systems in which the product is used

Please refer to the separate Declaration of Conformity (DoC) and REACH/CLP compliance documentation for further details.

10. Disclaimer

The information provided in this PDS is based on currently available data and practical experience. Performance may vary depending on system design, application and conditions.

A project-specific performance and risk assessment must always be carried out by qualified technical parties.

Summary

Product: Flamblocker CF7 – universal fire suppression liquid

Fire classes: A, B, D, F, E

Key features: 100% biodegradable, PFAS-free, non-toxic, Non-corrosive, strong cooling effect

Applications: industrial and professional fire protection

Storage: –30 °C to +60 °C, >20 years (unlimited shelf life if stored correctly)

Conformity: REACH/CLP compliant; CE/UKCA not applicable