



FIRE LIMIT® FL-02 Long-Term Retardant

Product Overview

FireLimit® FL-02 is a Long Term Retardant of fire with blocking and extinguishing effect for aerial and ground application in forest and urban fires. It is a concentrated liquid, easily miscible in water by recirculation, agitation or mechanical mixing of liquids.

FireLimit® FL-02 is a concentrated liquid retardant base Nitrogen compounds, which does **not contain polyphosphates, halogen-free and without heavy metals**, so it is a toxicologically appropriate product for environmental use. FireLimit® FL-02 brings together a facility for mixing, handling and loading of a liquid, with the advantages that this entails in its application both by aerial and ground means. The special characteristics of the FireLimit® FL-02 reduce the dispersion and evaporation of the product during its use, which provides a greater coverage and penetration through the vegetation, with a 100% yield.

TECHNICAL CHARACTERISTICS	FireLimit FL-02
Form	Liquid
Color	Red/White
Odor	Soft or odorless
pH	6 - 7
Density 20° C	Aprox. 1,4 g/cm ³
Viscosity (concentrated product)	Aprox. 200 cP
Mix ratio (in volume)	10% (1 part FL-02 + 9 parts of water)
Expiration period	24 months

Application

The FireLimit® FL-02 retarder is designed for application by land and aerial means of fixed and rotating wing. The product is stored in its concentrated form, for its later mixing and dilution with water before its loading in the means of application. It is important that the concentrated product is homogenized before mixing it with water.

The FL-02 is developed for the control and extinction of fires in wooded areas, scrub, pasture, etc., for this reason it is a product that is **respectful of the environment, biodegradable and is not toxic to the flora, nor to the terrestrial or aquatic fauna**, which allows the product to be used near any aquatic environment.

FireLimit® retardants offer high efficiency due to their special characteristics that occur simultaneously with the arrival of fire contributing to the preservation of the environment: Reduction of the speed of fire, progressive reduction of the flames until their total extinction,

Technical data sheet

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isolation thermal fuel and drastic reduction of temperature in the area of application, among others.

Packaging

FireLimit® FL-02 is available in the following formats:

- In bulk (in tank trucks)
- IBC of 1000 liters.

Check the possibility of supply in another type of specific container.

Precautions of use

- Handle in accordance with the general guidelines of good practices handling non-toxic chemicals.
- It is not irritating to the eyes or the skin.
- For more information, consult the security data sheet.

Toxicity

Toxicity	FireLimit - FL-02
Oral Toxicity (DL₅₀) OCDE 423 Toxicity by ingestion	Nontoxic >2.000 mg/kg Nontoxic and nonirritating
Dermal Toxicity (DL₅₀) OCDE 402 Dermal Irritation	Nontoxic >2.000 mg/kg Nonirritating
Eye Irritation BCOP	Nonirritating 8,74
Acute ocular corrosión/irritation OCDE 405	Nonirritating, non-corrosive

Eco-Toxicity	FireLimit - FL-02
Fish Toxicity (CL₅₀ – 96h) OCDE 203 <i>Brachydanio rerio</i>	= 6.930 mg/l Nontoxic
Toxicity Dalphineas (CE₅₀ – 48h) OCDE 202 <i>Daphnia magna</i>	>10.000 mg/l Nontoxic
Toxicity in earth worms (CL₅₀ – 14 days)	Equivalency with <i>Daphnia magna</i> test
Biodegradability OCDE 302B	50 mg COT/L 93% at 28 days 150 mg COT/L 87% at 28 days

Other information of interest:	Non-corrosive product
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