

FIRE-TROL® 931

LONG-TERM RETARDANT - AERIAL APPLICATION



DESCRIPTION

FIRE-TROL® 931 is a liquid concentrate mixed with water, used for aerial applications by fixed wing aircraft and helicopters to control wildfires. Composed of ammonium polyphosphate, clay, corrosion inhibitor, coloring agents.

CERTIFICATIONS

FIRE-TROL 931 has been tested on the thermal tunnel (CEREN, National French Research Laboratory for Firefighting). The experiments determined the inhibiting capacity of the retardant by simulating the arrival of flames on a treated area and comparing this with the spontaneous dehydration of the product, which occurs after application.

The solution's extinguishing capacity is evaluated by the mass of concentrate required to stop the spread of flames under precise operating conditions. These tests demonstrated that FIRE-TROL 931 at 20% (v:v) dilution rate is an excellent long-term retardant.

COATING AND COLORATION

The solution of FIRE-TROL 931 clings very well to the fuel source. Bright intense coloration makes the patterns quite visible from the air tankers.

EFFECTS ON ENVIRONMENT

Evaluations have been made of the effect of FIRE-TROL 931 on germination, growth and re-growing of the plants. When used at the same dilution rate as in fire suppression, FIRE-TROL 931 stimulates fuel yield.

CORROSION

FIRE-TROL 931 has been tested either electro chemically or using (coupons) methods. These tests have shown good inhibition action of the product on aluminum, steel and brass (CEREN, National French Research Laboratory for Firefighting, and Italian Air Force Lab).

Approved for use by Conair, Bombardier, Air Tractor, Viking / De Havilland Aircraft, and French Civil Security - DGSCGC.



TOXICOLOGICAL PROPERTIES

FIRE-TROL 931 is considered non-toxic. It has been submitted to toxicological and eco-toxicological testing in accordance with the OECD guidelines applicable European Directives (2005).

PHYSICAL PROPERTIES

Specific gravity (concentrate)	1.38 - 1.43 kg/dm³
Specific gravity (solution 20%)	1.08 - 1.10 kg/dm³
pH at 20°C (concentrate)	6.0 - 6.5
pH at 20°C (solution 20%)	6.4 - 6.6
Viscosity of the concentrate (cps)	Higher than 1000
Mix ratio	20% (v/v)

TEST PROPERTIES

Concentrate	mild eye and skin irritation
LD₅₀ acute dermal toxicity on rabbit	> 2040 mg/kg
Diluted Product	minimal eye and skin irritation
LD₅₀ acute dermal toxicity on rabbit	> 2020 mg/kg



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FOR MORE INFORMATION

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