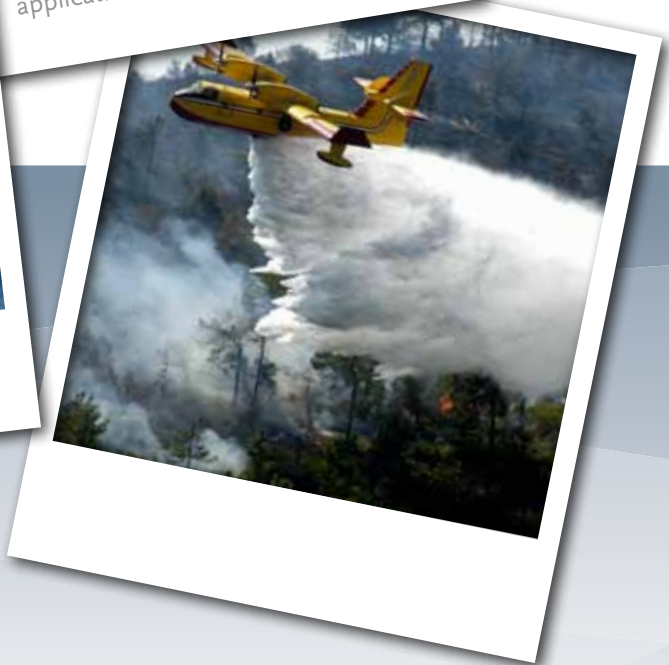




Solo7™ FCA-A-wild & forest fire applications



FAST & SAFE  
97.7% BIODEGRADABLE  
NO REIGNITION  
LESS DAMAGE  
LOW WATER USE  
NON TOXIC

**BIODEGRADABLE  
FIRE-FIGHTING  
WATER  
ADDITIVES**



**'FOR ALL YOUR  
FIRE SUPPRESSION  
SOLUTIONS'**



# FCA-A-W/F-BIO FIRE SUPPRESSION LIQUID



Solo7™ Class A Fire Control Additives (FCA) lead to the following safety and economic benefits:

- Fast and safe fire suppression performance
- Excellent fire suppression capabilities
- No reignition of the extinguished environment
- Environmentally safe
- 3 - 5% dilution (in mixer or premix tank)
- 97.7% biodegradable (in 28 days)
- Low water use due to fast fire suppression
- Can be used in both fresh or salt water
- Can be used with all types of equipment
- No (soil) clean-up
- Certified product



FIRE  
SUPPRESSION  
PRODUCT

**1** Tyre on fire. 7,5 litres (2 gallons) of water diluted with 5% Solo7™ Fire Control Additive.



**2** Fire suppression started:  
Target: saving app. 50% of the tyre.



🕒 Running time: 16.0 seconds

**3** Partly burned: Full control on fire suppression process.



🕒 Running time: 48 seconds

**4** Fire suppression finished. Total water/additive consumption: 2 litres (0.52 gallons).



🕒 Fully extinguished in: 57 seconds

**5** NOTE: There is hardly any damage to the tyre surface and hardly any fire suppression liquid in the pan.



# TIRE ON FIRE TEST



## FCA-A-W/F-BIO CERTIFICATIONS

Tests according to NTN161-2.

Solo7™ products are certified according to:



§ Biodegradability	EN 1568-3:2008/ OECD 301 B	✓ Pass
§ Toxicity O Fishes	EN 1568-3:2008/OECD 203	✓ Pass
§ Toxicity O Daphia	EN 1568-3:2008/OECD 202	✓ Pass
§ Toxicity O Algae	EN 1568-3:2008/OECD 20	✓ Pass
§ Bacterial Inhibito	EN 1568-3:2008	✓ Pass
§ Density	EN ISO 12185	✓ Pass
§ Sediment	EN 1568-3:2008	✓ Pass
§ Viscosity	EN 1568-3:2008	✓ Pass
§ pH	EN 1568-3:2008	✓ Pass
§ Surface Tension	EN 1568-3:2008	✓ Pass
§ Corrosivity	ASTM D 665/ ASTM D 130	✓ Pass
§ Conductivity	EN 1568-3:2008	✓ Pass
§ Performance O Solid fires		✓ Pass

For more detailed information refer to the MSDS.

# PRODUCT CERTIFICATION



# FCA-A-W/F-BIO REIGNITION TEST: PALLET FIRE



1 9 pallets set on fire. Burning time: 5 minutes before 50% fire suppression starts.



🕒 Pallet burning time: 5 minutes

2 Fire suppression starts but only on the right-hand side. Quantity of water used: 0,0 litre (0,0 gallons).



🕒 Running time: 0.0 seconds

3 The left-hand side continues to burn and the right-hand side is almost extinguished. 5,7 litres (1,5 gallons) of water/4% of diluted Solo7™ Premix A.



🕒 Running time: 14.0 seconds

4 50% extinguished in 22 seconds. Quantity of water used: 9,5 litres (2,5 gallons).



🕒 Running time: 22.0 seconds

5



🕒 Pallet burning time: 9 minutes

6



🕒 Pallet burning time: 14 minutes



7

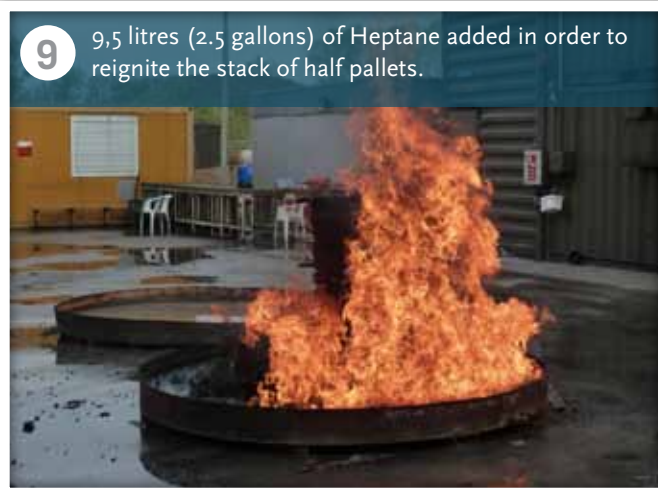
🕒 Pallet burning time: 17 minutes



8

Total quantity of water used: 17 litres (4.5 gallons).

🕒 100% extinguished in 29 seconds



9

9,5 litres (2.5 gallons) of Heptane added in order to reignite the stack of half pallets.

🕒 Burning time: 29 seconds



10

🕒 Burning time: 44 seconds



11

🕒 Burning time: 62 seconds



12

Total quantity of water used during the reignition test: 0,0 litre (0,0 gallons).

🕒 Total burning time: 93 seconds

# FIRE SUPPRESSION PROCESS SCHEMATIC



A small quantity of (fresh or salt) water mixed with **Solo7™** additives creates an enormous fire suppression effect, reignition does not occur, is biodegradable by nature and does not leave any residue behind.

**1** Fire suppression starts with a small quantity of the **Solo7™** additive.



**2** Fast fire suppression in the centre of the fire source.



**3** The centre of the fire source is extinguished first.



**4** Fire under control.



**5** Last stage of fire suppression.



**6** Fire completely extinguished using only a total of 7,5 litres (2 gallons) of water mixed with **Solo7™** additive.





# FCA-A-W/F-BIO COAL FIRE SUPPRESSION

www.solo7.com  
info@solo7.com

- Coal quantity: 150 kg
- Burning time: 6,5 hours
- Temperature:  $\pm 900/1000^{\circ}\text{C}$
- Fire suppression additive: **Solo7™** Premix 5% Type FCA-A-BIO
- Water flow: 23,85 litres (6.3 gallons)/minute
- Water pressure: 7 bar
- Fire suppression time: 4 minutes of a 9-minute time cycle



## RESULT:

Temperature drops from  $\pm 900/1000^{\circ}\text{C}$  to  $\pm 50^{\circ}\text{C}$  in app. 6.5 minutes.

Coal can be picked up manually.

# COAL FIRE SUPPRESSION



# FIRE CONTROL ADDITIVES IN GENERAL



**SoloSeven B.V.** is a company that specializes in product development and manufacture of biodegradable fire-fighting water additives. All **Solo7™** products are biodegradable, NON-toxic by nature and do not leave residue behind.

**Solo7™** fire suppression products deliver a new identity and herald a new era in the dangerous world of fighting fires and the conservation of the environment in general. The combination of a high fire suppression performance and meeting all safety and environmental requirements ensures a unique and reliable product that will perform anywhere at any time. **Solo7™** product properties will impress experienced fire-fighters and provide the confidence that you are protected at all times.

## PRIMARY

The *FCA BIO Line* products perform appropriately and are fast and safe under all conditions in case of fire and, above all, it prevents the reignition of the fire source. The risk of having residue left behind once the fire is out is completely eliminated because of the non-toxic product structure.



## SECONDARY

The environment will, in general, benefit from these aspects and their use will pay off in many ways such as the prevention of hazardous situations for humans and/or animals. It is very cost-effective and cleaning up operations are not required.





## SAFETY

- Fast and safe fire suppression performance
- No reignition of the fire source
- High cooling-down effect
- Prevention properties
- Very little smoke development during the fire suppression process
- No disorientation of fire-fighters and other people
- No slippery surface



## ENVIRONMENT

- Biodegradable (97.7 %) in 28 days
- Non-toxic by nature
- No residue left behind
- Safe and non-toxic to humans and animals
- Very low water consumption
- No (soil) cleaning operations after the fire
- No damage to the environment in general
- Less smoke development, carries and spread less unburnt and/or polluted particles
- Surpasses all environmental legislation requirements



## EQUIPMENT (EXISTING)

- Suitable for use with all existing fire suppression equipment
- No corrosion or pitting to equipment
- Simple and easy to add (3-5% dilution)
- Premixable



## COST-SAVING ASPECTS

- Less damage to the environment and the immediate area
- Advantages with regard to insurance
- Price competitive

PRODUCT  
APPLICATION



A solution brought to you as a single package that has been tested and proved and is safe in every way!



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The combination of a high fire suppression performance and meeting all safety and environmental requirements ensures a unique and reliable product that will perform anywhere at any time. **Solo7™** product properties will impress experienced fire-fighters and provide the confidence that you are protected at all times.

**Solo7™** is a certified fire suppression product

*For all your fire suppression solutions.*

# BIODEGRADABLE FIRE-FIGHTING WATER ADDITIVES

FAST & SAFE  
97.7% BIODEGRADABLE  
NO REIGNITION  
LESS DAMAGE  
LOW WATER USE  
NON TOXIC



Solo7™

[www.solo7.com](http://www.solo7.com)

[info@solo7.com](mailto:info@solo7.com)



Solo7™ air tanker premix



5% premix with any flow and pressure

