

# SUMMARY REPORT \*

## *Aqueous aerobic biodegradation test on CF-7 according to OECD 301F (1992)*

### Description of the product:

'Control Fire' fire extinguishing sprays contain the product named CF-7.

### Sponsor:

C-Fire  
Frank Van Dyckelaan 17  
9140 Temse  
BELGIUM

### Testing facility:



### Reference item

Sodium acetate

### Test duration

28 days

### Result

**99,8% or rounded 100% biodegradable**

The test was performed in accordance with the OECD principles of Good Laboratory Practices (GLP).

A quality control was executed on June 1, 2023. This quality control ensures that the final report is complete and accurately reflects the conduct and raw data of the study.

### Summary and conclusions

The aerobic biodegradation of test item CF-7 was evaluated in an aqueous aerobic biodegradation test using sludge inoculum without any pre-adaptation to the test item according to OECD 301F (1992). The test was performed in duplicate and the incubation temperature was continuously kept at  $21^{\circ}\text{C} \pm 1^{\circ}\text{C}$ . The total test duration was 28 days.

According to the OECD 301F (1992) guideline, the test is considered valid if a) the degree of biodegradation of the reference material is  $> 60\%$  after 14 days, and b) the oxygen consumption of the controls is not exceeding  $60 \text{ mg O}_2/\text{l}$  after 28 days. After 4 days Sodium acetate was already degraded by  $64.7\% \pm 0.4\%$  (on  $\text{O}_2$  consumption). The total  $\text{O}_2$  consumption of the controls after 28 days of testing was  $17.0 \pm 2.8 \text{ mg O}_2/\text{l}$  medium. Both requirements were fulfilled.

As evaluated based on oxygen consumption, the biodegradation of test item CF-7 started after approximately one day and proceeded at a good rate. After 9 days the test material was already degraded by  $62.9\%$ . The biodegradation rate gradually slowed down and at the end of the test (28 days) a **biodegradation of  $99.8\% \pm 2.4\%$**  was measured.

From these results it can be concluded that test item CF-7 fulfilled the  $60\%$  biodegradability requirement within 28 days of testing under the given aerobic conditions. Moreover, as the  $60\%$  pass level was reached with a 10-day window, **test item CF-7 can be considered readily biodegradable.**

\* This report is an extract of the final report with reference F\_209\_Rev03 d.d. May 16, 2023.