

- Department of Health Ecology and Environmental Protection has been qualified according to the requirements of standards HRN EN ISO/EC 17025:2007 (ISO/IEC 17025:2005+Cor.1:2006; ISO/IEC 17025:2005+AC: 2006) for: "Testing of food, animal feeding stuffs, wine, alcoholic drinks, objects of common use, waters, microbiological cleanliness of facilities, waste, soil, sludges, eluate, ambient air and construction products. Sampling of food, waters, soil, sludge, waste and air"
- Accreditation is valid in the field described in the Accreditation Certificate No. 1040 from 27.11.2018.
- Andrija Stampar Teaching Institute is certified by Bureau Veritas Croatia according to standards ISO 9001:2015; ISO 14001:2015 and ISO 45001:2018.

ANALYSIS REPORT

For analytical number: **05804 60/20**

Date: 15.04.2020.

Customer: C-fire NV, Frank Van Dyckelaan 3, B-9140-Temse, BELGIJA

GENERAL INFORMATION

Sample label: **CF7 all purpose wetting agent for A, B, D, F fire classes**

Sample type: Means with specific application area

Analysis type: Ecotoxicological analysis

Delivery time: 24.02.2020. 10:24

Analysis started: 26.02.2020. 11:50 Report completed: 15.04.2020. 11:30

Request reason: Quality (validity and opinion)

Document class: 351-04/20-01/04

Registration No. 381-5/3-20-02

Report delivery address: C-fire NV, Frank Van Dyckelaan 3, B-9140-Temse, BELGIJA

Analytical number: 05804 60/20

Conformity Assessment: The sample **“CF7 all purpose wetting agent for A, B, D, F fire classes”** was delivered to ecotoxicological analysis in a plastic package (1000 ml). pH value for not diluted concentrate was 7.3.

Product chemical compounds were specified in product documentation and provided by C-fire NV company (water-based solution of plant extracts and alkali-salts of inorganic acids).

The study of freshwater algae growth inhibition with unicellular green algae (*Raphidocelis subcapitata*) E_rC_{50} , 72 h, 30.8 mg L⁻¹ has been found and it indicates that the sample **“CF7 all purpose wetting agent for A, B, D, F fire classes”** is not acute ecotoxic for these aquatic organisms¹⁻².

The inhibition of mobility *Daphnia magna* Straus (*Cladocera, Crustacea*) – acute toxicity test determined the value of EC_{50} , 48 hours 62.9 mg L⁻¹ and indicates that the sample **“CF7 all purpose wetting agent for A, B, D, F fire classes”** is not acute ecotoxic for these aquatic organisms¹⁻².

Analysis refers specifically on delivered sample.

¹ Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008

² Commission Regulation (EU) No 286/2011 of 10 March 2011



Head of Division

Ivana Hrga, Ph.D.

Accredited methods are marked with an asterisk (*)
Methods from flexible part of accreditation are marked with letter F and asterisk (F*)

Date: 15.04.2020.

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ANALYSIS RESULTS

Laboratory for Ecotoxicology					
Analysis started: 26.02.2020. 11:50			Analysis completed: 15.04.2020. 11:30		
Name of analysis	Method	Technique	Measuring unit	Result	ML ⁺⁺⁺
Original sample appearance	-		milky liquid		
Fresh-water algal growth inhibition test with unicellular green algae	HRN EN ISO 8692:2012*		EC ₅₀ , 72h mg L ⁻¹	30.8	
Determination of the inhibition of the mobility of Daphnia magna Straus (Cladocera, Crustacea) – Acute toxicity test	HRN EN ISO 6341:2013*		EC ₅₀ , 48h mg L ⁻¹	62.9	
pH	HRN EN ISO 10523:2012		pH unit	7.3	

End of analysis report



Ivana Hrga, Ph.D.



⁺⁺⁺ Maximum Levels according to legal obligations stated in the opinion