

Work Order : 258664
 Sample Number : 88100

SAMPLE IDENTIFICATION

Company :	Chestnut Springs LLC	Submitted By :	Not provided
Location :	Ridgefield CT	Submission Date :	2025-08-20
Test Item :	FINC-25 S / AFT--FINC25-AF	Date Received :	2025-08-21
Test Item Type :	Chemical	Time Received :	13:30
Batch/Lot Number :	W00173778	Storage Temperature :	Ambient room temp.
Volume/Container :	1 x 500 mL bottle	Initiation Date :	2025-09-24
Description :	Clear to slightly hazy liquid	Completion Date :	2025-09-26

 Test Method(s) : Acute Lethality Test Using *Daphnia* spp. EPS 1/RM/11, Environment Canada, July 1990 (with May 1996 amendments).

48-HOUR TEST RESULTS

Effect	Value	95% Confidence Limits	Statistical Method
LC50	>1000 mg/L	—	—
EC50	>1000 mg/L	—	—

Results are based on nominal concentrations (w/v) of the test item.
 The results reported relate only to the item tested and as received.

PREPARATION OF TEST SOLUTIONS

Testing followed the general conditions of the test method cited. The 1000 mg/L (w/v) test solution was prepared by weighing an appropriate amount of the test item and mixing thoroughly with control/dilution water until uniform. Appropriate amounts of the 1000 mg/L test solution were mixed with control/dilution water to achieve the remaining desired test concentrations. Test solutions were mixed thoroughly prior to test initiation.

COMMENTS

- A range-finding test conducted on 2025-09-15 indicated that 50% mortality of test organisms would be expected to occur at a concentration of between 100 mg/L and 1000 mg/L of the test item.
- Analysis of test item concentration was not conducted. As such, test results are based on nominal concentrations only.
- All test validity criteria as specified in the test method were satisfied.

Approved By : _____
Project Manager

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TEST ORGANISM

Test Organism :	<i>Daphnia magna</i>	Cumulative mortality rate :	2.7% (previous 7 days)
Source :	In-house culture	Time to First Brood :	8.3 days
Organism Batch :	Dm25-19	Average Brood Size :	30.2 young
Age (on test day 0):	≤24 hours (on test day 0)	Stressed Control Organisms :	0 (at test completion)

TEST ORGANISM CULTURING CONDITIONS

Culture Vessel :	1 L glass cylinder	Light Intensity :	400 - 800 lux
Culture Water :	Reconstituted Water ¹	Photoperiod (light/dark) :	16 h / 8 h
Age of Culture :	14 to 28 days old	Light Source :	Cool white fluorescent
Water exchange rate :	100% once daily	Organism handling :	Pipette and/or mesh
Food Type :	1 YCT : 1.75 algae : 225 water ^b	Temperature :	20 ± 2 °C
Feeding Frequency :	Once daily	Culture Aeration :	None

¹ Moderately hard reconstituted water was prepared by dissolving required reagents with reverse osmosis water, following USEPA (2002)^b. The water was aged for ≥ 3 days and aerated vigorously at test temperature (20 ± 2°C). No additional chemicals were added.

TEST CONDITIONS

Test Type :	Static	Control/Dilution Water :	Reconstituted water ¹
pH Adjustment :	None	Test Chamber :	250 mL glass
Hardness Adjustment :	None	Depth of Test Solution :	~8 cm
Pre-aeration/Aeration Rate :	37.5 ± 12.5 mL/min/L	Volume per Replicate :	150 mL
Duration of Pre-Aeration :	0 minutes	Number of Replicates :	1
Test Aeration :	None	Organisms Per Replicate :	10
Light Intensity :	400 - 800 lux at water's surface	Organisms Per Test Level :	10
Photoperiod (light/dark) :	16 h / 8 h	Organism Loading Rate :	15.0 mL/organism
Light Source :	Cool white fluorescent	Test Method Deviation(s) :	None
Feeding during Test :	None		

REFERENCE TOXICANT DATA

Toxicant :	Sodium Chloride		
Date Tested :	2025-09-23	LC50 :	6.3 g/L
Organism Batch :	Dm25-19	95% Confidence Limits :	5.8 - 6.8 g/L
Analyst(s) :	ACS, MZG, SSF	Historical Mean LC50 :	6.3 g/L
Statistical Method :	Binomial (CETIS) ^a	Warning Limits (± 2SD) :	5.7 - 6.9 g/L

REFERENCES

^a CETIS™, © 2000-2022. v2.1.4.0 x64. Comprehensive Environmental Toxicity Information System. Tidepool Scientific Software, LLC, McKinleyville, CA 95519 [Program on disk and printed User's Guide].

^b US EPA. 2002. Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms. 5th Edition. EPA 8-21-R-02-12. U.S. Environmental Protection Agency, Office of Water (4303T) 1200 Pennsylvania Avenue, NW Washington, DC 20460.

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TEST DATA

	pH	Dissolved O ₂ (mg/L)	Conductivity (µmhos/cm)	Temperature (°C)	O ₂ Saturation (%)*
Initial Chemistry (1000 mg/L) :	7.3	8.6	675	20	99

0 HOURS

Date & Time 2025-09-24 11:20
 Analyst(s) : CB

Concentration (mg/L)	Dead	Immobile	pH	Dissolved O ₂	Conductivity	Temperature	O ₂ Saturation*	Hardness
1000	0	0	7.3	8.6	675	20	99	110
330	0	0	7.6	8.6	549	20	–	–
109	0	0	7.8	8.7	510	20	–	–
36	0	0	8.0	8.7	502	20	–	–
11.9	0	0	8.5	8.8	495	20	–	–
Control	0	0	8.6	8.5	465	20	100	140

Notes:

24 HOURS

Date & Time 2025-09-25 11:15
 Analyst(s) : SSF

Concentration (mg/L)	Dead	Immobile	pH	Dissolved O ₂	Conductivity	Temperature
1000	–	0	–	–	–	20
330	–	0	–	–	–	20
109	–	0	–	–	–	20
36	–	0	–	–	–	20
11.9	–	0	–	–	–	20
Control	–	0	–	–	–	20

Notes:

48 HOURS

Date & Time 2025-09-26 11:30
 Analyst(s) : CB

Concentration (mg/L)	Dead	Immobile	pH	Dissolved O ₂	Conductivity	Temperature
1000	0	0	7.7	8.0	664	20
330	0	0	7.9	8.0	556	20
109	0	0	7.9	8.1	530	20
36	0	0	8.0	8.1	521	20
11.9	0	0	8.0	8.2	516	20
Control	0	0	8.0	7.9	528	20

Notes:

Number immobile does not include number dead.

"–" = not measured/not required

* adjusted for temperature and barometric pressure

Test Data Reviewed By : EM

Date : 2025-10-03