

Acute Toxicity to Activated Sludge (FC-99, DEA salt of
PFOS)

ACTIVATED SLUDGE RESPIRATION INHIBITION TEST

TEST SUBSTANCE

Identity: Perfluorooctanesulfonate, DEA salt; may also be referred to as PFOS DEA salt, FC-99, or 3M Sample No. 2. (1-Octanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptafluoro-, compd. with 2,2'-iminobis[ethanol] (1:1), CAS # 70225-14-8)

Remarks: Test sample is a mixture of the test substance in water (approximately 25% test substance and 75% water). All values reported relate to this mixture. No calculations were made to adjust for the actual concentration of the test substance in the test sample.

METHOD

Method: Not noted.

Test type: Static acute

GLP: No

Year Completed: 1979

Analytical monitoring: DO concentrations.

Method Remarks: Testing was terminated when there was no indication of toxicity at the highest sample concentration.

RESULTS

Nominal concentrations: 1000 mg/L test material solution.

Control response: Unknown

Remarks: Testing was conducted on the "as-sold" mixture of the subject material (25% subject substance in water). The value reported applies to that mixture and not the test material.

CONCLUSIONS

The test material exhibited no inhibitory effect at 1000 mg/L over a 7-minute exposure.

Submitter: 3M Company, Environmental Laboratory, P.O. Box 33331, St. Paul, Minnesota, 55133

DATA QUALITY

Reliability: Klimisch ranking 3. This study lacks sufficient documentation, characterization of the test substance purity, and analytical measurement of test concentrations. Additionally, testing was conducted on the "as sold" product, and testing was discontinued at 1000 mg/L.

REFERENCES

This study was conducted by the 3M Company, Environmental Laboratory, Lab Request number 48955, 5/30/79.

OTHER

Last changed: 5/2/00

ENVIRONMENTAL LABORATORY SUMMARY SHEET

LAB REPORT NO. 48955

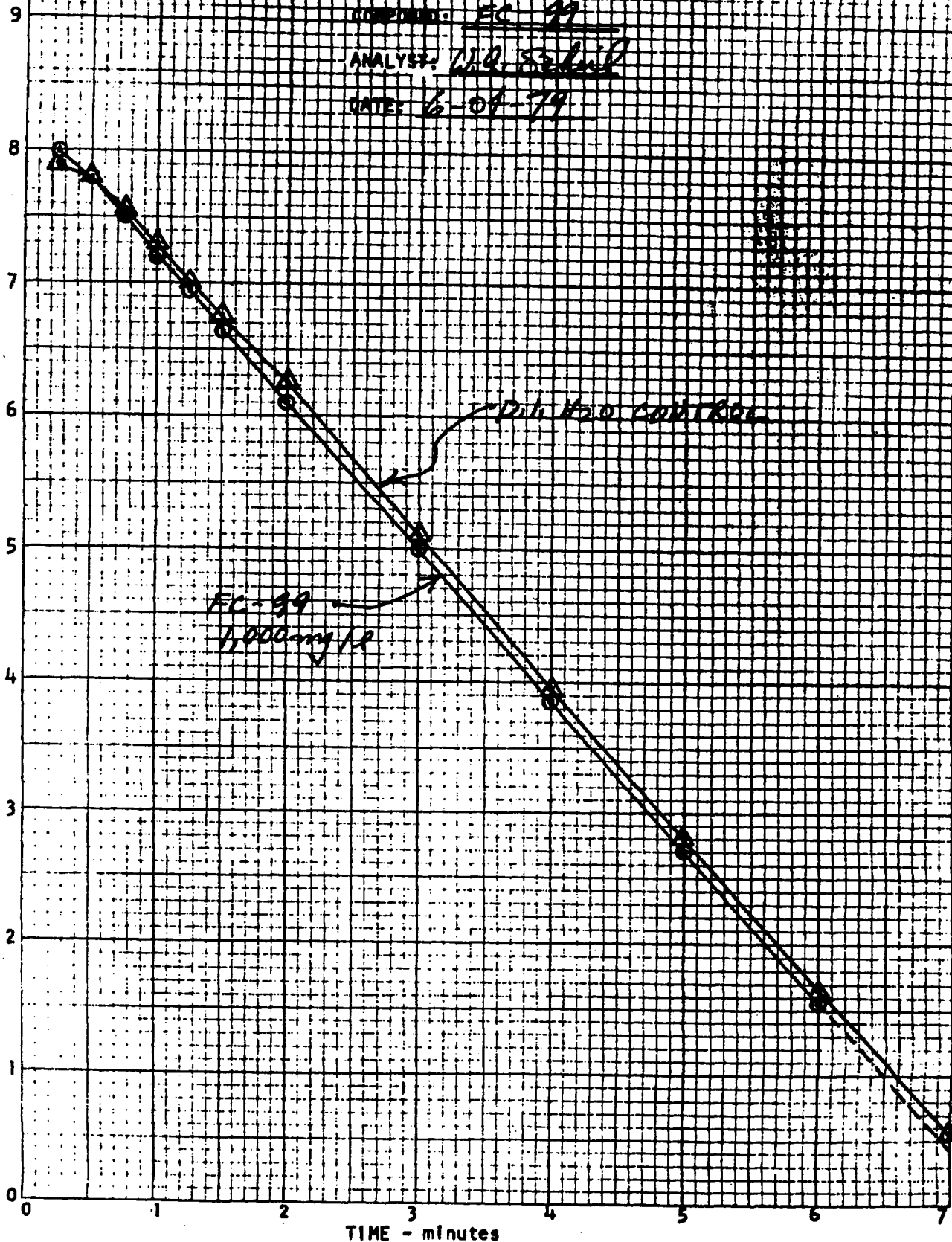
ACUTE TOXICITY OF A Compound to Activated
Sludge Mixed Liquor

COMPOUND: EC 99

ANALYST: W.D. Schulz

DATE: 6-04-79

DISSOLVED OXYGEN CONCENTRATION - mg/l



DIETZEN CORPORATION
MADE IN U.S.A.

NO. 340-10 DIETZEN GRAPH PAPER
10 X 10 PER INCH

ACUTE TOXICITY OF A COMPOUND TO LR# 48955
 ACTIVATED SLUDGE MIXED LIQUOR
 - Environmental Lab Work Sheet -

TIME		(6,000) 1,000	#1 D.L.	(.6) 0.1	(600) 100	(6) 1.0	#2 D.L.	(60) 10.
MIN.	SEC.							
	15	8.0	7.9					
	30	7.8	7.8					
	45	7.5	7.55					
1		7.2	7.3					
1	15	6.95	7.0					
1	30	6.65	6.75					
2		6.1	6.25					
3		5.8	5.7					
4		3.85	3.95					
5		2.7	2.8					
6		1.55	1.65					
7		<0.5	0.55					
8			<0.5					
9								
10								

Because there was not any indication of toxicity at the highest sample concentration, the test was terminated at this point.

COMPOUND FC-99

ANALYST W. G. S. S. S.

DATE 5-30-79