

BIODEGRADATION (BOD/COD)

TEST SUBSTANCE

Identity: A mixture containing perfluorooctanesulfonate; may also be referred to as PFOS, FC-95, or as a component of FC-185F. (1-Octanesulfonic acid) (CAS # 2795-39-3)

Remarks: The 3M production lot number was 1-2303. The test sample is FC-185F, cc 817-19. Current information indicates it is a mixture of 4% PFOS, 36% diethylene glycol butyl ether, 29.29% water, 14% ethylene glycol, 8% Sultone foamer, 8.35% sodium octyl sulfate, 0.3% sodium lauryl sulfate, and 0.06% tolyltriazole.

The following summary applies to a mixture with incompletely characterized concentrations of impurities. Data may not accurately reflect the biodegradability of the fluorochemical component of the test sample.

METHOD:

Method: Not noted.
Type: Aerobic
GLP: No
Year completed: 1982
Contact time: 20 days
Inoculum: Not given.

RESULTS

Chemical Oxygen Demand (COD): 1,200,000 mg/kg
1,200,000 mg/kg (replicate)

Biochemical Oxygen Demand (BOD):
5-Day: 250,000 mg/L
10-Day: 990,000 mg/L
20-Day: 1,200,000 mg/L

CONCLUSIONS

No conclusions given.

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

DATA QUALITY

Reliability: Klimisch ranking = 4. Values are from a summary sheet only – raw data not found. Study lacks description and records of the method followed. The inoculum was not properly characterized. There is no characterization of the test substance purity, analytical measurement of the test concentrations, and confirmation of the amount of fluorochemical components in the solution.

REFERENCES

This study was conducted by the 3M Environmental Laboratory, St. Paul, Minnesota, Lab Request number 7544, 1982.

OTHER

Last changed: 6/26/00

05/30/2000

ENVIRONMENTAL LABORATORY
ARCHIVED FINAL REPORT

1

LAB REQUEST NO. 7544
REQUESTOR NAME: EAR
DEPARTMENT: 0535
PROJECT NO: 9972210100
DATE RECEIVED: 12/17/1981
DESC: FC-185F (CC817-19) LOT 1-2303

CONTRACT LAB(S):
EXP COMP DATE: 01/18/1982
DATE COMPLETED: 02/24/1982
PROJECT LEAD: SA BEACH
PHONE NO: 651-778-7452
3M FAX NO: 651-778-6176

SAMPLE DATE CODE DESCRIPTION RESULT MDL or (95% C.I.)

1		1-2303	FC-185F		
	96-HR-LC50	FISH ACUTE TEST - 96 HOUR	COMPLETE		
	BOD-05	BOD-05	250000 MG/L		
	BOD-10	BOD-10	990000 MG/L		
	BOD-20	BOD-20	1200000 MG/L		
	COD	COD	1200000 MG/KG		
	SLUDGE-TOX	SLUDGE TOXICITY	SEE ATTACHED REPORT		
2		DUP #1	-----		
	COD	COD	1200000 MG/KG		

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