

BIODEGRADATION (BOD/COD)

TEST SUBSTANCE

Identity: A mixture containing perfluorooctanesulfonate, which may also be referred to as PFOS, FC-95 or as a component of FC-201AF. (1-Octanesulfonic acid) (CAS # 2795-39-3).

Remarks: The 3M production lot number was not noted. The test sample is FC-201AF. Current information indicates it is a mixture of 3% PFOS, 18.59% diethylene glycol butyl ether, 37.81% water, 14% ethylene glycol, 8.25% Acrylic foamer, 9% sodium octyl sulfate, 0.3% sodium lauryl sulfate, 3% triethanolamine, 6% sulfonated alkyl ether salts, and 0.05% 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: 1995
Contact time: 5 days
Inoculum: Source not given.

RESULTS

Chemical Oxygen Demand (COD): 901,000 mg/L

Biochemical Oxygen Demand (BOD):
5-Day: 570,000 mg/L

CONCLUSIONS

No conclusions given.

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

DATA QUALITY

Reliability: Klimisch ranking 3. Study lacks description and records of the method followed. The inoculum is not properly characterized. Sample purity

is not properly characterized and the study lacks analytical confirmation of the amount of fluorochemical proportion in the solution.

REFERENCES

The studies were conducted by MDS Environmental Services Limited, Ontario, Canada at the request of the 3M Canada Incorporated, London, Ontario, Canada, work order number 24135, 1995.

OTHER

Last changed: 6/26/00

**MDS**
Environmental Services Limited**Certificate of Analysis**

Client(1368) 3M Canada Incorporated, London

Project Number:

Attention: Galina Barinshteyn

Work Order: 24135

Client Ref. #:

Reported: 24-May-95

Page: 1

Purchase Order: S036897CHG

Date Received: 28-Apr-96

Sample Type: liquid

Sample #	Test	Result	Units	MDL	Comment
95-A009986	Sample Description: [REDACTED]				Date & Time Sampled:
	C.O.D. Total	901000	mg/L	10	
	BOD, Total	570000	mg/L	2	
95-A009987	Sample Description: Test Foam				Date & Time Sampled:
	C.O.D. Total	798000	mg/L	10	
	BOD, Total	620000	mg/L	2	

B.O.D was 5 day test.

EXPLANATION OF CODES:

ND Not Detected

MDL Method Detection Limit