

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-206CF or FC-206CF-X. (1-Octanesulfonic acid) (CAS # 2795-39-3).

Remarks: The 3M production lot number was 101. The test sample is FC-206CF. Current information indicates it is a mixture of 0.5% PFOS, 10% diethylene glycol monobutyl ether, 78.08% water, 1.375% acrylic foamer, 1.5% sodium octyl sulfate, 1% sulfonated alkyl ether salts, 6.0% urea, 0.5% triethanolamine, and 0.05% tolyltriazole.

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

METHOD:

Method: EPA 410.1 COD and EPA 405.1 CBOD

GLP: No

Year completed: 1991

Contact time: 20 days

Inoculum: Not given.

RESULTS

Chemical Oxygen Demand (COD):	340,000 mg/kg
Biochemical Oxygen Demand (BOD):	
5-Day:	160,000 mg/kg
10-Day:	170,000 mg/kg
20-Day:	180,000 mg/kg

Remarks: Testing was conducted on the mixture as described in the Test Substance Remarks field. The values reported apply to that mixture and not the fluorochemical proportion alone.

CONCLUSIONS

No conclusions given.

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

DATA QUALITY

Reliability: Klimisch ranking = 2. The study meets all criteria for quality testing. However, the inoculum is not properly characterized. The sample purity was not properly characterized and the study lacks analytical confirmation of the amount of fluorochemical proportion in the solution.

REFERENCES

This test was conducted by Pace, Incorporated, of Minneapolis, MN at the request of the 3M Company, St. Paul, MN, Lab Request number J1885-2, 1991.

OTHER

Last changed: 6/28/00



REPORT OF LABORATORY ANALYSIS

July 02, 1991

Mr. Wade Schell
3M Environmental Laboratory
935 Bush Avenue
Bldg. 2-3E
St. Paul, MN 55133

RE: PACE Project No. 910522.526
J1885

Dear Mr. Schell:

Enclosed is the report of laboratory analyses for samples received May 22, 1991.

If you have any questions concerning this report, please feel free to contact us.

Sincerely,

Lisa A. Arndt
Project Manager

Enclosures

RECEIVED

JUL 11 1991

3M ENVIRONMENTAL
LABORATORY

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Minneapolis, MN 55422
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FAX: 612-525-2377

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REPORT OF LABORATORY ANALYSIS

Mr. Wade Schell
Page 2

July 02, 1991
PACE Project Number: 910522526

J1885

PACE Sample Number:
Date Collected:
Date Received:
Parameter

10 0185876
05/21/91
05/22/91

Units MDL J1885-2 DATE ANALYZED & METHOD

INORGANIC ANALYSIS

INDIVIDUAL PARAMETERS

Biochemical Oxygen Demand, Carb 05 Day	mg/kg	6000	160000	05/29/91	EPA 405.1
Biochemical Oxygen Demand, Carb 10 Day	mg/kg	6000	170000	05/29/91	EPA 405.1
Biochemical Oxygen Demand, Carb 20 Day	mg/kg	6000	180000	05/29/91	EPA 405.1
Chemical Oxygen Demand	mg/kg	50000	340000	06/03/91	EPA 410.1

MDL Method Detection Limit

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