

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-201F-X. (1-Octanesulfonic acid) (CAS # 2795-39-3).

Remarks: The 3M production lot number was 1. The test sample is FC-201F-X (F-11129). Current information indicates it is a mixture 3% PFOS, 36% diethylene glycol butyl ether, 36.6% water, 8.25% acrylic foamer, 7% sodium octyl sulfate, 6% sulfonated alkyl ether salts, 3% triethanolamine, and 0.15% toluoltriazole.

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: EPA Methods 410.1 for COD and 405.1 for CBOD.

Type: Aerobic

GLP: No

Year completed: 1992

Contact time: 20 days

Inoculum: Not given.

RESULTS

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

Biochemical Oxygen Demand (CBOD):

5-Day:	170,000 mg/kg
10-Day:	780,000 mg/kg
20-Day:	780,000 mg/kg

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

REFERENCES

This study was conducted by Pace Inc., Minneapolis, MN at the request of the 3M Company, Environmental Laboratory, St. Paul, MN, Lab Request number K1125, 1992.

OTHER

Last changed: 6/26/00



REPORT OF LABORATORY ANALYSIS

February 17, 1992

Mr. Wade Schell
3M Environmental Laboratory
935 Bush Avenue
Bldg. 2-3E-09
St. Paul, MN 55133

RE: PACE Project No. 920122.521
Client Reference: K1125

Dear Mr. Schell:

Enclosed is the report of laboratory analyses for samples received January 22, 1992.

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

Sincerely,

Lisa A. Arndt
Project Manager

Enclosures

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REPORT OF LABORATORY ANALYSIS

3M Environmental Laboratory
935 Bush Avenue
Bldg. 2-3E-09
St. Paul, MN 55133

February 17, 1992
PACE Project Number: 920122521

Attn: Mr. Wade Schell

Client Reference: K1125

PACE Sample Number:

Date Collected:

Date Received:

Client Sample ID:

Parameter

Units

MDL

10 0021180

01/20/92

01/22/92

K1125-1

METHOD DATE ANALYZED

INORGANIC ANALYSIS

INDIVIDUAL PARAMETERS

3M Chemical Oxygen Demand Method 410	mg/kg	50	1000000	EPA 410.1	01/23/91
Biochemical Oxygen Demand, Carb 05 Day	mg/kg	600	170000	EPA 405.1	01/22/92
Biochemical Oxygen Demand, Carb 10 Day	mg/kg	600	780000	EPA 405.1	01/22/92
Biochemical Oxygen Demand, Carb 20 Day	mg/kg	600	780000	EPA 405.1	01/22/92

MDL Method Detection Limit

These data have been reviewed and are approved for release.

Starla Enger
Inorganic Chemistry Manager

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