

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-206CE. (1-Octanesulfonic acid) (CAS # 2795-39-3).

Remarks: The 3M production lot was not noted. The test sample is FC-206CE. Current information indicates it is a mixture of 0.92% PFOS, 15% diethylene glycol butyl ether, 76.09% water, 4% urea, 1.28% Sultone foamer, 1.55% sodium octyl sulfate, 1.05% polyoxyethylene monooctylphenyl ether, 0.06% sodium lauryl sulfate, and 0.05% tolytriazole.

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: Not given.
Contact time: 20 days
Innoculum: Source not given.

RESULTS

Chemical Oxygen Demand (COD):	390,000 mg/kg
Biochemical Oxygen Demand (BOD):	
5-Day:	46,000 mg/L
10-Day:	260,000 mg/L
20-Day:	470,000 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. There is no

characterization of the test substance purity nor analytical measurement of the test concentrations.

REFERENCES

The studies were conducted by Pace Laboratories, Inc. of Minneapolis, MN at the request of the 3M Company, Lab Request number G1358, 1989.

OTHER

Last changed: 6/26/00

May 12, 1989

File: G1358

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

Dear Mr. Scheil:

Enclosed is the report of laboratory analyses for samples received 03/14/89.

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

Sincerely,

Peggy F. Gaskill for

Susan D. Max
Director, Sampling and Analytical Services

Enclosures



REPORT OF LABORATORY ANALYSIS

Offices:
Minneapolis, Minnesota
Tampa, Florida
Coralville, Iowa
Novato, California
Leawood, Kansas

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

May 12, 1989
PACE Project Number: 890314511

Attn: Mr. Wade Scheil

G1358

Date Sample(s) Collected: By Client
Date Sample(s) Received: 03/14/89

PACE Sample Number:

Parameter	Units	MDL	069490 G1358-1	069500 G1358-2	069510 G1358-3
INORGANIC ANALYSIS					
INDIVIDUAL PARAMETERS					
Biochemical Oxygen Demand, Carb 05 Day(1)mg/L		24000	91000	46000	-
Biochemical Oxygen Demand, Carb 10 Day(1)mg/L		24000	400000	260000	-
Biochemical Oxygen Demand, Carb 20 Day(1)mg/L		24000	680000	470000	-
Chemical Oxygen Demand(2)	mg/kg	50000	740000	390000	740000

MDL Method Detection Limit

Mr. Wade Scheil
Page 2

May 12, 1989
PACE Project Number: 890314511

PACE Sample Number:
Parameter

<u>Units</u>	<u>MDL</u>	069520
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INORGANIC ANALYSIS

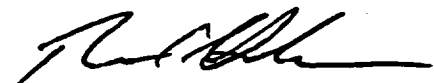
INDIVIDUAL PARAMETERS

Chemical Oxygen Demand(2)

mg/kg	50000	370000
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- MDL Method Detection Limit
- (1) Biochemical oxygen demand was performed in accordance with standard methods #507.
- (2) Chemical oxygen demand was performed in accordance with standard methods #508.

The data contained in this report were obtained using EPA or other approved methodologies. All analyses were performed by me or under my direct supervision.


Thomas L. Halverson
Inorganic Chemistry Manager