

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-201. (1-Octanesulfonic acid, perfluoroalkyl sulfonate salts (5) + (5140P)) (CAS # 2795-39-3)

Remarks: The 3M production lot number was not noted. The test sample is FC-201. Its purity was not sufficiently characterized, though current information indicates it is a mixture of 6% PFOS, 36% diethylene glycol butyl ether, 36.44% water, 12% Sultone foamer, 9% sodium octyl sulfate, 0.5% sodium lauryl sulfate, and 0.06% benzotriazole.

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

METHOD:

Method: Not noted.
Type: Aerobic
GLP: No
Year completed: 1975
Contact time: 20 days
Inoculum: Source not given.

RESULTS

Chemical Oxygen Demand (COD): 1,040,000 mg/L

Biochemical Oxygen Demand (BOD):

5-Day:	188,000 mg/L
10-Day:	637,500 mg/L
15-Day:	615,000 mg/L
20-Day:	660,000 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. Only a summary of results was available. Study lacks description and records of the method followed. The inoculum is not properly characterized. There is no characterization of the test substance purity, and the study lacks analytical confirmation of the amount of fluorochemical proportion in the solution.

REFERENCES

The studies were conducted the 3M Company, Environmental Laboratory, St. Paul, MN, Lab Request number 2563, 1975.

OTHER

Last changed: 6/26/00

PRODUCT ECOLOGICAL ASSESSMENT REQUEST FOR LABORATORY WORK

Ref: ENVIR. ASSESS. INQ. # _____ DIVISION _____
PRODUCT: _____

LAB REQUEST NO. _____

REQUESTER

Name: Dale Bacon Phone No. 5453
Request Date: 12/13
Project No.: 73-5760 Prob. No. ~~2-1000~~ 08
Code No.: 08 2900
Sample Date: _____ Date Needed: 1/30
Description: _____
Purpose of Tests: _____

LABORATORY

Date Received Sample: 12/13
Analyst: _____
Date Completed: 1/28/25
Hours Spent: _____
Y 75 B 19 P 20
Please Call Requester If Delays Are Encountered.

PHYSICAL & CHEMICAL PROPERTIES

Heat of Combustion Cal/G (BTU/Lb.)
Density
Ash
Other

50
FC 201

FC 203A

FC 225

FC 83

WATER POLLUTION

pH
COD
BOD₅
BOD, Ultimate
TOC
GC
Oxygen Uptake
Dehydrogenase Activity (TTC)
Other

✓ 1,040,000
✓ 188,000
✓ 660,000
✗

✓ 648,000
✓ 72,000
✓ 427,500
✗

✓ 444,000
✓ 92,000
✓ 101,300
✗

✓ 808,000
✓ 270,000
✓ 270,000

BIOASSAY

Specify Organism and Method:

Fathend / Static

LEACHATE FROM LEACHING TEST

pH
COD
BOD₅
BOD, Ultimate
TOC
GC
Bioassay
Other

OTHER

Bioaccumulation
Persistence
Degradation Products
Recyclability
Burnability
Weathering

000165

FC-CHEMICALS

20

[illegible]

000166