

BIODEGRADATION (BOD/COD/TOC)

TEST SUBSTANCE

Identity: Perfluorooctanoic acid, ammonium salt; may also be referred to as PFOA ammonium salt, Ammonium perfluorooctanoate, PFO, FC-116, FC-126, FC-169, or FC-143. (Octanoic acid, pentadecafluoro-, ammonium salt, CAS # 3825-26-1)

Remarks: The test sample is FC-143. The referenced study is only a summary. Current information indicates FC-143 is a mixture of 96.5 - 100% test substance and 0 - 3.5% C₆, C₇, and C₉ perfluoro analogue compounds. The 3M production lot number was 261.

METHOD:

Method: Not noted.

Type: Aerobic (BOD). Unknown for COD and TOC.

GLP: No

Year completed: 1977

Contact time: 14 days

Innoculum: Not noted

RESULTS

Total Organic Carbon (TOC)*:	186,000 mg/kg 238,000
Chemical Oxygen Demand (COD)*:	<4000 mg/kg <1800 mg/kg
Biochemical Oxygen Demand (BOD):	
5-Day:	Nil
14-Day:	<10,200 mg/kg

* Duplicated studies.

CONCLUSIONS

No reliable conclusions can be derived from this study.

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

DATA QUALITY

Reliability: Klimisch ranking 4. Summary was created using only a listing of test values. The original study procedure and raw data were not found.

REFERENCES

The data summary sheet was created by the 3M Company, Environmental Laboratory, St. Paul, MN, Lab Request number 3844, July 14, 1977.

OTHER

Last changed: 5/24/00

0222 - ENGR

PRODUCT ECOLOGICAL ASSESSMENT REQUEST FOR LABORATORY WORK

Ref: ENVIR. ASSESS. INQ. #

LAB REQUEST NO. 3844

PRODUCT:

DIVISION

REQUESTER

Name: Dale Bairn Phone No. 5453
Request Date: 7/1/77
Project No.: 99700/2600 Prob. No. _____
Code No.: _____
Sample Date: _____ Date Needed: _____
Description: _____
Purpose of Tests: _____

LABORATORY

Date Received Sample: _____
Analyst: _____
Date Completed: _____
Hours Spent: _____
Y _____ B _____ P _____
Please Call Requester If Delays Are Encountered.

PHYSICAL & CHEMICAL PROPERTIES

Heat of Combustion Cal/G (BTU/Lb.)

Density

Ash

Other

WATER POLLUTION

pH

COD

BOD₅

BOD, Ultimate 14 day

TOC

GC

Oxygen Uptake

Dehydrogenase Activity (TTC)

Other

BIOASSAY

Specify Organism and Method:

Blue gill 96h.

LEACHATE FROM LEACHING TEST

pH

COD

BOD₅

BOD, Ultimate

TOC

GC

Bioassay

Other

OTHER

Bioaccumulation

Persistence

Degradation Products

Recyclability

Burnability

Weathering