



SCHOOL OF AGRICULTURAL SCIENCES
CITRUS RESEARCH CENTER AND
AGRICULTURAL EXPERIMENT STATION
DEPARTMENT OF ENTOMOLOGY

RIVERSIDE, CALIFORNIA 92522

December 3, 1968

Dr. W. R. Rick

Dr. Cummings Paton
Organic Division Development
Monsanto Company
800 North Lindbergh Boulevard
St. Louis, Missouri 63166

Dear Dr. Paton:

I wonder if it would be possible to obtain from you 100-gram research samples each of the following Monsanto Aroclor plasticizers of your highest available commercial grade of purity: Monsanto numbers 1221, 1232, 1242, 1248, 1254, 1260, 1262, 1268, 2565, 4465, and 5460. Thank you in advance for your courtesy.

Sincerely yours,

Francis A. Gunther
Francis A. Gunther
Professor of Entomology

FG:bk

FW - Forward a copy to L.A. office.

NEV 031160

780698

100-10

W. R. Richard - Research Center

December 9, 1968

AROCLOR TESTING

E. Tucker	JFQ
R. Keller	JFQ
W. Johnson	WJCHN
K. Wells	KWELL
P. Benicinus/J. Bryant	PEBNI
R. Munch	JFQ

TO :

E. Wheeler - EMHES

The issues on Aroclor toxicity testing are complicated. I know you plan to issue written program objectives. My understanding after last meeting 12/6/68 is as follows:

1. Determine whether Jensen and Co. really have Aroclor or not in tissue of birds:
 - (a) by putting Aroclor through rats and chickens and seeing if we get the same or different peaks than found in Jensen paper. (Use mass spectrograph for check.)
 - (b) by getting hold of tissues from nature which others say is Aroclor but which could be many other compounds. Use mass spectrograph to check vs. known Aroclor results.
2. Determine a tolerance level for Aroclor in feeding studies. Run a material balance on Aroclor to find out where it ends up.
3. Determine whether Aroclor is an enzyme inducer which affects steroids and Ca metabolism. (I really don't know what I am saying here but you can clarify.)
4. Keep track of what Govt. research labs are doing in way of testing, plus interpret their results for Monsanto.
5. Keep track of what Govt. research labs are finding in the way of geographical location of so-called PCB peaks, and in what species of animals. What does this mean in the way of product control by Monsanto. Check with Johnson of Callandras Laboratories.
6. Contact Baeyer in Germany to see if they have taken any action. Keep track of Japan incident through ENK.

Bar
W. R. Richard
NEV 031161

December 9, 1962

Aroclors - Minutes of Our
Discussion with Dr. Calandra

W. R. Richard
WRICH

R. A. Wells - RWELL
P. E. Keller - RKELL

N. T. Johnson - RITCH
C. Paton - CPATC
P. B. Hodges - PHODG
R. E. Kelly, M.D. - RKELL

I believe the following summarizes briefly our discussions Friday:

- 1) Dr. Calandra is to dose several chickens with the Aroclor to make available sample tissues for analysis by Scott Tucker. The doses to be used will approach the lethal dose levels. Appropriate tissues and organs will be frozen and forwarded to St. Louis for analysis. This is intended to yield some gross indication of retention sites and levels in fowl.*
 2. Dr. Calandra is to begin 30-day "range finding" toxicity studies with rats on each of the four Aroclors which have been sent to him. The purpose is to establish levels which will be appropriate for chronic two-year studies. Additional analysis of excreta and appropriate organs and tissues will provide some information as to metabolic pathways, retention and/or accumulation and balances (as indicated by chemical analysis using "cold" material).
 - 3) It is anticipated that the long range (two-year studies) could be initiated soon after completion of the 30-day study within the next 60 to 90 days. This is not a commitment, however, to begin the two-year studies at that time.
 - 4) The actual preparation of "hot" material is to be held in abeyance but exploration as to the availability and cost of tagged material is to be continued and firmed up.
 - 5) The advisability of determining the character and possibility of isolating the "major fraction" in each of the Aroclors to be studied is to be explored.
 - 6) It would be helpful for Scott Tucker to obtain appropriate animal organs and tissues to become familiar with the extraction and analytical techniques using actual specimens. (I have already arranged with Fred Younger of Younger Laboratories for appropriate specimens from rats with no known exposure to chlorinated compounds. We will have these by Dec. 12. Since I have asked Fred to provide us some specimens from some rat which he is currently dosing with one of the Aroclors in a sublethal dose. These should be available in about two weeks.)
- *Especially important, it will provide Scott an opportunity to look for the G. C. peaks reported in the literature.

NEV 031162

December 9, 1958

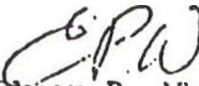
7) Analytical work should be initiated to determine the decomposition products when representative materials (paper) containing Arcelor are burned.

8) There should be follow-up with the fish and wildlife people at Patuxent with a request for duplicate samples of some of the tissues in which they have identified PCBs so that Scott can attempt to confirm their results.

9) There should be further discussions initiated with Risebrough and others around the country whom we have not yet contacted but who we believe to be actively engaged in research projects looking for the PCBs.

10) It was deemed advisable to arrange more formally for the correlation and analysis of all of the publications and bits of information which are available. This would include possibly statistical analysis by someone with appropriate biological and biochemical background as well as statistical analysis capability.

11) It was the consensus that the group should schedule monthly meetings to review progress. The first such meeting was tentatively scheduled for January 15 at Dr. Calandra's Laboratories in Chicago.


Elmer P. Wheeler

cs

NEV 031163

Memorandum

W. R. Richard -- Research Center

December 19, 1958

WILDLIFE -- AROCLOR

E. Wheeler
W. K. Johnson
K. Wells
R. Davis
P. Benignus/J. Bryant
W. Kuhn

EWHEE
WJOHN
KWEIJ.
RDAVI
PIBENI
WKUHN

Mr. E. Scott Tucker -- Res. 2

S. Second Street

I have asked Jim Sullivan to order 5 gal. each of the chlorinated naphthalene series containing from 1 to 8 chlorine atoms. Some of the chlorinated naphthalenes could be fed to chickens and the tissue extracted to see if these compounds elute in the GLC at the same positions as Aroclor.

I understand you plan to run DDT, Aroclor, Toxaphene and Cl naphthalene. Are there any other likely candidates of a similar chemical nature?

Bill Richard

W. R. Richard

ms

NEV 031164

780702

[illegible]

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November 10, 1955

Mr. J. Edgar Hoover, Director, FBI, Washington, D.C.

Dear Mr. Hoover:

Enclosed

are two copies of the information on two of the proposed

revisions to the Federal Reserve Act - Gross Toxicity

and
the
Federal
Reserve
Act

Very truly yours,
[Signature]

1. The first of these is the fact that the Government has not been able to secure the necessary funds to carry out its policy of maintaining the value of the pound at parity with the dollar. This has led to a series of devaluations which have caused a loss of confidence in the pound and have led to a sharp decline in the value of the pound on the foreign exchange market.

10 Day Post-Prone Study

[illegible]

2025 RELEASE UNDER E.O. 14176

NEV 031166

780704

12. 08. 1964

1. The following information is being furnished to you for your information only. It is not intended to be used for any other purpose.

Is there a possibility of any of the old I got
that is in concern to "COLUMBIA" and "Globe"?

I have enclosed a copy of the letter of our meeting when you were in town and your last statement (a). There is also a copy of what I thought of as a letter.

[illegible]

1. *Chlorophyll a* and *Chlorophyll b* were determined by the method of Arar and Collins (1971).

James P. Buckley
1000 P.O. Box 100000, Dallas, Texas 75210

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2548 W. W. B. B.

1. W. R. Johnson
2. W. R. Johnson
3. W. R. Johnson
4. W. R. Johnson
5. W. R. Johnson

NEV 031167

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