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DECEMBER

DSW 171359

W.B. Papageorge - General Offices

December 29, 1971

Pirelli - U.K.

P.G. Benignus
H.S. Bergen
W.R. Corey
P.J.A. Marsh — Brussels
J. Mason
C. Paton
H.A. Vodden - Ruabon

A. Arpino
Brussels

I sincerely regret and apologize for the delay in responding to your memorandum dated September 9 referring to Pirelli's interest in the possible use of either Aroclor 1242 or Aroclor 1232 as an impregnate in the manufacture of fire resistant electrical cables.

The delay was frankly caused by some indecision on my part. From your description of the application and attempting to remain objective, I can convince myself that this use could conceivably be classified as "controllable". However, with the many problems associated with present "controllable" applications, it does not appear that it would be wise to further extend our potential problem areas.

I recommend that we avoid further complications and not introduce PCB's into the electric cable application.

W. B. Papageorge

md

DSW 171360

71

STLCOPCB4045986

W. B. Papageorge

December 29, 1971

W. R. Corey
H. S. Bergen

C. Paton
W.R. Richard
E.S. Tucker

As a direct result of our offer to discuss in depth the environmental significance of the published PCB production and sales information, Dr. Edward D. Goldberg, Scripps Institution of Oceanography, Dr. Robert W. Risebrough, Bodega Marine Laboratory, and Dr. George Harvey, Woods Hole Oceanographic Institution have requested a meeting with Monsanto.

The meeting has been scheduled for January 21 and 22. You are invited to participate in the discussion, therefore, please mark your appointment calendars and note that January 22nd is a Saturday.

Dr. Goldberg promised to forward to me a list of questions which will help us in our preparations. As soon as we have determined what information they are seeking, I will arrange a short meeting to review our objectives and approach.

W. B. Papageorge

md

DSW 171361

STLCOPCB4045987

December 29, 1971

Dr. Edward D. Goldberg
Geological Research Division
Scripps Institution of Oceanography
University of California, San Diego
P.O. Box 109
LaJolla, California, 92037

Dr. George R. Harvey
Woods Hole Oceanographic Institution
Woods Hole, Massachusetts, 02543

Dr. Robert W. Risebrough
Bodega Marine Laboratory
University of California
P.O. Box 247
Bodega Bay, California, 94923

Gentlemen:

I have arranged for single accommodations for each of you at the Holiday Inn - North, Lindbergh Boulevard and Interstate 70, phone 314-731-2100, for the nights of January 20 and January 21.

The motel is located near the airport and courtesy car service is available.

I suggest that I meet you in the motel lobby at 7:30 A.M. on January 21 for breakfast and plan to arrive at Monsanto's offices in time to start discussions at 9:00 A.M.

If these arrangements are not appropriate, please don't hesitate to let me know.

I look forward to an interesting and hopefully mutually beneficial session.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

DSW 171362

4-19

STLCOPCB4045988

cc: Dr. George Grice
Office for International Decade of Ocean Exploration
National Science Foundation
Washington DC 20550

DSW 171363

December 29, 1971

503-754-1345

Dr. Virgil H. Freed
Department of Agricultural Chemistry
Oregon State University
Corvallis, Oregon 97331

Dear Dr. Freed:

Enclosed are copies of articles relating to polychlorinated biphenyls which I offered to send you.

I hope you find this information useful.

If I can be of further sdrvice, please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

md
enc:

DSW 171364

4.8

STLCOPCB4045990

December 29, 1971

Dr. Harold E. B. Humphrey
Environmental Scientist
Bureau of Community Health
Michigan Department of Public Health
3500 N. Logan
Lansing, Michigan 48914

Dear Dr. Humphrey:

Enclosed are copies of articles relating to polychlorinated biphenyls which I offered to send.

I hope you find this information useful.

If I can be of further service, please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

md
enclosed:

DSW 171365

6-67

STLCOPCB4045991

W. B. Papageorge - General Offices

December 29, 1971

W. R. Corey
A. J. Koenig
G. Kosup
W. R. Richard
E. P. Wheeler

H. S. Bergen
General Office B2SL

Confirming our recent discussion, toxicological studies of the chlorinated biphenyls, chlorinated terphenyls and brominated quaterphenyls will be curtailed to conform to recent policy decisions relating to the manufacture and sale of these materials.

Current studies are too advanced to terminate at this time and final reports should be available within weeks.

I will arrange with Bionomics, Inc., Hingham, Massachusetts for acute fish toxicity studies of Aroclor 1016, Aroclor 1242, and DDT. This study will cost approximately $10,000 and hopefully will result in information to help us determine the need for more detailed long term residue studies.

No further studies of biphenyls-terphenyls-quaterphenyls are proposed for 1972.

W. B. Papageorge

ed

666

DSW 171366

STLCOPCB4045992

December 29, 1971

Miss Jacqueline D. Greenberg
Goucher College
Towson, Maryland 21204

Dear Miss Greenberg:

I regret that I cannot send you a sample of the chlorinated dibenzo-p-dioxin you requested in your letter dated December 14 because Monsanto does not manufacture the material. I am not aware of any source for this material.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

665

DSW 171367

STLCOPCB4045993

December 29, 1971

Dr. Cornell M. Ladner
Department of Microbiology
Mississippi State University
P. O. Box MB
State College, Mississippi 39762

Dear Dr. Ladner:

I am sending under separate cover the sample of Aroclor 1260 you requested in your letter dated December 15.

I regret I cannot send samples of the pure isomers since we do not manufacture the pure components.

You may be able to obtain some of the isomers by contacting

Mr. Ted Lynn
Analabs, Incorporated
80 Republic Drive
North Haven, Connecticut 06473
Phone: 203-288-8463

I hope this information is useful to you. If I can be of further service, please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

6.6.4

md

DSW 171368

STLCOPCB4045994

December 29, 1971

Mr. W. H. Nuttall
Valley Forge Marketing & Research Center
Oaks, Pennsylvania 19456

Dear Mr. Nuttall,

I am sending under separate cover a sample of Aroclor 5460 which you requested in your letter dated December 20.

I regret I cannot send samples of Aroclor 1248 and Aroclor 4465 because we have discontinued the manufacture of these materials and the supply of samples has been depleted. I hope the lack of material does not seriously inconvenience you.

If I can be of further service, please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

md

cc: J.A. Allan
Container Corporation of America
Oaks, Pennsylvania

M. Merchant
Monsanto Company
St. Louis

663

DSW 171369

STLCOPCB4045995

December 29, 1971

Mr. Lloyd Berg
Chemical Engineering Department
Montana State University
Bozeman, Montana 59715

Dear Mr. Berg:

I am sending under separate cover samples of Monsanto's polychlorinated biphenyls which are still being manufactured and are still available. There is no charge for this material.

If I can be of further service, please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

md

DSW 171370

STLCOPCB4045996

December 29, 1971

Mr. C. K. Shuman
The Ohio Grain Company
Milford Center, Ohio 43045

Dear Mr. Shuman:

Your letter dated December 6 informing Monsanto of the discovery of PCB's in horse feed was forwarded to me for response.

The presence of PCB's at the high level you indicated is extremely puzzling since Monsanto has restricted the sales of these materials for over one year. Apparently, contamination is occurring from some past application of PCB's.

Since I do not know what ingredients are used in your horse feed, I can only speculate regarding the source of PCB's. I would suspect painted surfaces such as silos, bins, or conveyors in which the coating is deteriorating. If paper bags are involved, they could be contaminated from the use of recycle paper, adhesives or inks.

PCB's were used in such small quantities in greases and plastic liners that these sources would appear to be insignificant.

If any of the ingredients undergo heat treatment perhaps a heat transfer system using PCB's as the heating medium might be involved.

I have enclosed copies of articles relating to PCB's.

I hope this information is useful to you. If I can be of further service, please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

DSW 171371

md

STLCOPCB4045997

...onsanto

OUTGOING MESSAGE BLANK
Tele-Communications System

DATE 12/28/71 | TIME 9:10 AM | SENDER'S ACC 235.30 2-00-[illegible]

INDICATE DESIRED SERVICE → ☐ FULL RATE ☐ DAY LETTER ☐ NIGHT LETTER

Names of addressee and sender must include initials. Show complete address for telegrams and cables.

R. F. Garnsworthy - Melbourne Telex AA 30298

Regarding PCB questions raised in the Western Australian Government proceedings of November 24, I suggest Monsanto make no comment unless specifically requested to do so.

Regarding question 4, studies do show lower chlorinated isomers more degradable than higher. There is evidence that all eventually degrade, therefore cannot be classified as totally indestructible.

Regarding question 5, ingestion of large amounts of PCB's result in acne, nausea, loss of appetite, headache, etc. commonly associated with chlorinated hydrocarbons. Enlarged livers could result from prolonged exposure at high levels.

W. B. Papageorge
St. Louis

cc: C. Paton - B3SH
R. B. Giles - 5020
D. LePage - 5020

DSW 171372

IN-IR (REV. 7-64) *for* BETTER *service* - Forward to transmitting operator IMMEDIATELY after preparation.

STLCOPCB4045998

W. B. Papageorge - General Offices - B2NK

December 28, 1971

W. R. Corey - A2NA
T. L. Gossage - B2SL
R. E. Keller - 1760
J. F. Stapleton - C1NA
E. S. Tucker - 1760

H. S. Bergen - B2SL

Whenever we have become involved with our customers' PCB problems we have followed the policy of being candid and helpful. This is particularly true in those situations requiring sample analysis. We have shared our methodology freely, coached laboratory personnel, exchanged standard samples and analyzed all types of samples.

Customers who requested and received help include General Motors, Ralston Purina, Agway Laboratories, Holly Farms, St. Regis Paper, Champion Paper, General Electric, Westinghouse, Central Soya.

The pattern of behavior followed by the customer in most instances is fairly predictable. Initially we get the frantic call for help. Exchange of information occurs easily and the customer is pleased. However, as soon as the customer's needs appear to be satisfied he communicates less and less, sometimes changing his spokesman, and eventually we hear nothing regarding the final outcome.

With the increasing number of lawsuits naming Monsanto as a defendent, I am becoming increasingly concerned that perhaps we are helping others prepare cases against us. For example, companies we have helped which are involved in the current lawsuits include Agway Laboratories, Rozansky Feed and Holly Farms.

Because of the potentially serious problems that could result, I suggest that in the next few weeks we meet to review our policy relating to customer PCB problems.

W. B. Papageorge

WBP/er

659

DSW 171373

W. B. Papageorge - General Offices - B2NK

December 28, 1971

W. R. Corey - A2NA
S. O. Lyon - B3NC
R. F. Sellew - B3NC
E. H. Toombs - 5080

Messrs.

G. E. Johnston - 5110
J. A. Overing - 5110
B. D. Young - 5110

I regret and apologize for the delay in responding to your requests for advice on the proper manner to reply to Inmont Canada Limited's requirement that the products we sell them are free of lead, antimony, arsenic and PCB.

Except for rare instances, we have not performed trace metal or PCB analyses on the products purchased by Inmont. Therefore, we cannot certify that they are contaminant free. We can only speculate that if present the amounts are probably pollutionally insignificant.

I recommend that Inmont be informed that the information is not available. If in the judgement of the appropriate Monsanto people the Inmont account is important enough arrangements should be made with the appropriate research personnel to have the analyses run and the results forwarded to Inmont.

I would like to point out that if similar requests are received from many of our customers the cost of analysis will become considerable and the laboratory's resources will be severely strained.

I would also like to point out that when trace metal analyses results are forwarded to a customer we may inadvertently be establishing another product specification which every shipment must meet.

W. B. Papageorge

WBP/er

DSW 171374

6 58

December 28, 1971

Mr. J. H. Thayer
Manager, Environmental Protection
General Electric Company
Building 43, Room 390
100 Woodlawn Avenue
Pittsfield, Massachusetts 01201

Dear Jim:

Attached is the list of laboratories I offered to send.

As discussed over the telephone, we will start on the PCB analysis of your samples and determine from experience what is the best approach for the remainder of the year.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

Enclosure

cc: E. S. Tucker

657

DSW 171375

STLCOPCB4046001

December 28, 1971

Mr. Rexford K. Widener
Department of Chemistry
Western Washington State College
Bellingham, Washington 98225

Dear Mr. Widener:

I have enclosed copies of articles relating to polychlorinated biphenyls and describing Monsanto's curtailed marketing policy.

Foreign producers of PCB's are also reviewing their marketing practices and I suspect they also will sell only to uses which can be controlled and for which no alternative materials are available.

We have carefully monitored the entry of chemicals into this country and have not found any PCB's being imported. If any are entering this country they could be as part of a finished manufactured item in which detection would be difficult.

I hope this information is useful to you. If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

Enclosures

6-56

DSW 171376

STLCOPCB4046002

W. B. Papageorge - General Offices - B2NK

December 27, 1971 E. M. Potter

MURIATIC ACID - MERCK

George Simmons - 1650

You may inform Mr. Stuart Weber, Merck & Company, that the Muriatic Acid he receives from Monsanto contains no detectable PCB's.

W. B. Papageorge

WBP/er

654

DSW 171377

W. B. Papageorge - General Offices - B2NK

December 27, 1971 E. P. Wheeler - A2SA

Messrs.

W. R. Richard - T3A
R. E. Keller - 1760
E. S. Tucker - 1760
H. A. Vodden - 5470

Attached is a summary of PCB research activity which I received at a recent PCB conference.

W. B. Papageorge

WBP/er

Attachment

653

DSW 171378

STLCOPCB4046004

December 27, 1971

Mr. H. Daniel Wenstrup
Western Eaton Solvents & Chemicals Company
13395 Huron River Drive
Romulus, Michigan 48174

Dear Mr. Wenstrup:

To the best of our knowledge none of the materials listed on the attached Ford Motor Company form are present in the Santicizer 141 supplied to Ford.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

Enclosure

cc: D. Gass

652

DSW 171379

W. B. Papageorge - B2NK - General Offices

December 27, 1971

W. R. Corey - A2NA
P. B. Hodges - B2HA
D. B. Kesmer - B2NA
H. L. Kinckler - B2SA
E. S. Robson - B3NA
J. F. Stapleton - C1HA

F. J. Holzapfel - B3HA

While attending a PCB conference at Durham, North Carolina on December 20 and 21, I was approached by a Dr. Charles H. Powell, Office of Research and Standards Development, National Institute for Occupational Safety and Health, Rockville, Maryland, regarding the possibility of a visit by him and members of his staff to the W. G. Krummrich Plant to look over our PCB unit.

Dr. Powell and his staff have been assigned the responsibility for developing OSHA standards and he indicated the PCB unit could serve as a model. He claimed he has been at the Krummrich Plant as an employee and was familiar with the plant.

Recognizing the potential problems, I was non-committal and indicated I would look into the plant's policy regarding plant visits.

I believe Dr. Powell is determined to visit the plant and will eventually call someone in Monsanto seeking permission to visit.

W. B. Papageorge

WBP/ar

6-E-1

DSW 171380

STLCOPCB4046006

December 27, 1971

Dr. Fred W. Clayton
Chief, Toxicology Information Services
National Library of Medicine
8600 Rockville Pike
Bethesda, Maryland 20014

Dear Dr. Clayton:

Enclosed is a copy of the PCB bibliography you requested at the Quail Roost Conference.

I hope you find it useful. If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

Enclosure

6.50

DSW 171381

STLCOPCB4046007

December 27, 1971

Dr. V. Gaind
T. W. Beak Consultants, Ltd.
306 Rexdale Boulevard
Rexdale, Ontario
Canada

Dear Dr. Gaind:

Enclosed is a copy of Monsanto's analytical methodology for the determination of polychlorinated biphenyls.

Although we have no procedure specifically designed for the detection of PCB's in chlorine, the procedure for air analysis can be easily adapted to chlorine.

I hope you find this information useful. If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

Enclosure

cc: E. H. Toombs - LaSalle, P.Q.

649

DSW 171382

STLCOPCB4046008

December 27, 1971

Dr. G. E. Quimby
P. O. Box 1313
Wenatchee, Washington 98801

Dear Dr. Quimby:

Attached is the bibliography we discussed at the Quail Roost Conference.

I hope you find it useful. If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

Enclosure

648

DSW 171383

STLCOPCB4046009

December 27, 1971

Mr. Charles Wilson 216-343-7701
Union Camp Corporation
P. O. Box 220
Dover, Ohio 44622

Dear Mr. Wilson:

Enclosed is a copy of Monsanto's polychlorinated biphenyl analytical methodology you requested.

I hope you find this information useful. If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

Enclosure

647

DSW 171384

STLCOPCB4046010

December 27, 1971

Miss Margaret Huston
Scientific Director
Poultry and Egg Institute of America
67 East Madison Street
Chicago, Illinois 60603

Dear Miss Huston:

Enclosed are copies of the abstracts of papers presented at the NIH PCB conference held on December 20 and 21. I hope you find the information useful.

I appreciate the opportunity to participate in your Poultry Quality Control School. I plan to arrive in Chicago on the night of February 7, and hope to join you for breakfast the following morning.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

Enclosures

646

DSW 171385

STLCOPCB4046011

W. B. Papageorge - General Offices - B2MK

December 27, 1971

PCB CONTENT
CONTINENTAL CAN - HODGE, LA.

E. L. Shimley - 1070
D. W. Stegen - 1460
B. G. Tibbetts - B2SE
R. S. Trump - B2SE

John G. Fredcriksen

I recommend you inform Mr. J. T. Fraser of Continental Can Company, Hodge, Louisiana, that PCB's are not used as components or in the processing equipment used in the manufacture of the sulfuric acid, Mersize DSO, Mersize TFL and RPC-1103 we supply his company.

To the best of our knowledge there are no PCB's present in these products.

W. B. Papageorge

WBP/er

345

DSW 171386

STLCOPCB4046012

December 17, 1971

Dr. Kenneth P. DuBois, Director
Toxicity Laboratory
The University of Chicago
930 East Fifty-Eighth Street
Chicago, Illinois 60637

Dear Dr. DuBois:

I regret and apologize for the delay in sending the sample of Aroclor 1260 you requested from Dr. W. H. Hunt.

I have arranged for the material to be sent to you under separate cover.

I hope the delay has not seriously inconvenienced you.

If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

cc: W. H. Hunt

DSW 171387

644

STLCOPCB4046013

December 17, 1971

512-241-2343

Dr. R. F. Stubbeman
Celanese Chemical Company
Box 9077
Corpus Christi, Texas 78408

Dear Dr. Stubbeman:

I am forwarding under separate cover samples of commercial polychlorinated biphenyls for use as laboratory standards.

I have enclosed a copy of Monsanto's analytical methodology which I hope you find useful.

If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

Enclosure

643

DSW 171388

STLCOPCB4046014

December 17, 1971

Dr. David A. Kurtz
Department of Entomology
College of Agriculture
Pesticide Research Laboratory and Graduate Study Center
The Pennsylvania State University
University Park, Pennsylvania 16802

Dear Dr. Kurtz:

I am sending under separate cover a sample of Aroclor 1221 which you requested in your letter dated December 13.

I regeet I cannot send the samples of the other Aroclors you listed. These mixtures have not been manufactured for over a year and our supply of samples has been exhausted.

I hope the lack of material does not seriously inconvenience you.

If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

DSW 171389

642

STLCOPCB4046015

December 17, 1971

Mr. John Bauer
Research and Technology
Armco Steel Corporation
703 Curtis Street
Middletown, Ohio 45042

Dear Mr. Bauer:

Enclosed is a copy of Monsanto's PCB analytical methodology which you requested from Mr. A. J. Rego.

I hope you find this information useful. If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

Enclosure

cc: Mr. A. J. Rego - Cincinnati

DSW 171390

641

W. B. Papageorge - General Offices - B2NK

December 17, 1971

C. Paton - B2SH
C. L. Bradford - B2SG

G. F. Fague - 1320

In your call report dated November 22, describing your meeting with the Detroit Metropolican Water Works you referred to the Michigan State Water Resources Commission claim that they can detect PCB's down to the 10 ppt level.

The detection level is dependent on the "cleanliness" of the sample, the sample size, the final volume of the extract, the volume of the extract injected into the instrument, the sensitivity of the instrument, the prevailing "background" of PCB and the experience of the analytical chemist.

The 2 ppb limit that you are aware of is the limit reached under normal conditions.

Under virtually ideal conditions it is possible to detect as low as 8 ppt.

I personally believe 2 ppb to be realistic. The 8 ppt level is not warranted and certainly not desirable.

W. B. Papageorge

WBP/er

DSW 171391
940

December 17, 1971

Mr. C. B. Coulson
Project Manager
Pensjonat Zgoda
Szpitalna 1
Warsaw, Poland

Dear Mr. Coulson:

I am sending under separate cover the sample of Aroclor 1242 requested in your letter dated December 10.

I regret I cannot send you samples of Aroclor 1232 and Aroclor 1262. We have discontinued the manufacture of these materials for over one year and our supply of samples has been depleted. I hope the lack of these samples does not seriously inconvenience you.

If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

DSW 171392

639

December 17, 1971

Miss Audrey Burda
Ivorydale Technical Center
The Procter and Gamble Company
Cincinnati, Ohio 45217

Dear Miss Burda:

Enclosed is a copy of a technical bulletin on Aroclors which you requested in your letter dated December 1.

If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

Enclosure

DSW 171393

634

STLCOPCB4046019

W. B. Papageorge - General Offices - B2NK

December 16, 1971

W. R. Corey - A2NA
H. S. Bergen - B2SA

Messrs.

T. L. Gossage
C. L. Bradford
J. H. Davidson
W. R. Richard
L. R. Stark
N. T. Johnson

12/20
revised to 9:30
& redistributed

A meeting will be held in room A-303 on December 22 with Dr. Tombergs, German Ministry of Health, to discuss the use of hydraulic fluids in German mines.

The meeting will start at 9:00 AM and is expected to last until late afternoon.

W. B. Papageorge

WBP/er

DSW 171394

637

STLCOPCB4046020

Monsanto

OUTGOING MESSAGE BLANK
Tele-Communications System

DATE	TIME	SENDER'S ACCOUNT NO.
12/16/71	11:10AM	2-00-735.90

INDICATE DESIRED SERVICE → ☐ FULL RATE ☐ DAY LETTER ☐ NIGHT LETTER

Names of addressee and sender must include initials. Show complete address for telegrams and cables.

Ann Mahady
Atlanta Sales Office

Okay to send information requested by South Carolina College of Engineering but include statement these materials are sold only for approved applications.

W. B. Papageorge
St. Louis

DSW 171395

436

for BETTER service - Forward to transmitting operator IMMEDIATELY after preparation

STLCOPCB4046021

December 15, 1971

Mr. G. W. Bierman
Herbert V. Shuster, Inc.
54 Clayton Street
Boston, Massachusetts 02122

Dear Mr. Bierman:

Enclosed is a copy of Monsanto's PCB analytical methodology you requested.

I hope you find this procedure useful. If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

Enclosure

DSW 171396

635

STLCOPCB4046022

December 14, 1971

Mr. Norman F. Lawton 617-543-2894
72 North Street
Foxboro, Massachusetts 02035

Dear Mr. Lawton:

Enclosed is the PCB information I offered to send.

I hope you find it interesting and useful.

If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

Enclosures

DSW 171397

634

STLCOPCB4046023

December 14, 1971

Dr. Samuel D. Faust
Department of Environmental Sciences
Rutgers University
P. O. Box 231
New Brunswick, New Jersey 08903

Dear Dr. Faust:

Enclosed are copies of articles relating to PCB's in the environment. I hope you find these interesting and useful.

If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

Enclosures

DSW 171398

633

STLCOPCB4046024

December 14, 1971

Mr. Les White
716 Lockwood
Petoskey, Michigan 49770

Dear Mr. White:

Enclosed are copies of articles relating to PCB's which I offered to send.

I hope you find these articles both interesting and useful.

If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

DSW 171399

632

December 14, 1971

Mr. James E. Smith
Technical Department
Peter Cooper Corporations
P. O. Box 128, Southland Park
Pineville, North Carolina 28134

Dear Mr. Smith:

Mr. Fred Sturm informed me of your need for analytical methodology for the determination of PCB's in adhesives.

I have enclosed a copy of the procedures used with considerable success by Monsanto's laboratories. These procedures can be adopted to your needs very easily.

If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

Enclosure

cc: Mr. Fred Sturm

DSW 171400

631

STLCOPCB4046026

December 14, 1971

Mr. J. A. Allan, Project Manager 215-933-9211
Corporate Materials
Research Center
Container Corporation of America
Oaks, Pennsylvania 19456

Dear Mr. Allan:

I am sending under separate cover samples of PCB mixtures for use as laboratory standards.

I have enclosed a copy of Monsanto's analytical methodology which I hope you find useful.

If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

Enclosure

DSW 171401

G30

STLCOPCB4046027

December 14, 1971

Mr. Harold A. Krieger 618-459-4581
Research and Development
Packaging Corporation of America
Grand Rapids, Michigan 49502

Dear Mr. Krieger:

I am sending under separate cover a sample of Aroclor 1242 for use as a laboratory standard.

I have enclosed a copy of Monsanto's PCB analytical methodology which I hope you find useful.

If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

Enclosure

DSW 171402

629

STLCOPCB4046028

December 14, 1971

Mr. W. T. Engelskirchen 312-496-5040
Nalco Chemical Company
6216 West 66th Place
Chicago, Illinois 60638

Dear Mr. Engelskirchen:

Enclosed is a copy of Monsanto's PCB analytical methodology you requested.

I hope you find this procedure useful. If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

Enclosure

DSW 171403

628

December 14, 1971

513-761-4130

Dr. H. A. Conner
Research Laboratories
National Distillation Products Company
1275 Section Road
Cincinnati, Ohio 45237

Dear Dr. Conner:

Enclosed is a copy of Monsanto's PCB analytical methodology which you requested.

I hope you find this information useful. If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

Enclosure

DSW 171404

627

December 14, 1971

Dr. G. Fred Lee
Water Chemistry Laboratory
Madison, Wisconsin 53706

Dear Dr. Lee:

Monsanto's Dr. Ira Hill recently informed me of your continuing interest and concern in PCB's and the environment. I was pleased that Dr. Hill had the opportunity to briefly review with you the status of Monsanto's curtailment program.

The reduction in PCB's produced has occurred as predicted and is shown on the attached copy of a news item Monsanto released recently. We are confident further reductions will result from our continuing efforts.

It appears to me that with our common interests in NTA, PCB and possibly other materials we could both benefit from further discussions. Can you find time in your busy schedule for a meeting with us in St. Louis? If so, I would like to suggest we arrange for a meeting sometime in January.

Best regards.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

Enclosure

cc: Dr. Ira D. Hill

DSW 171405

bcc: W. R. Corey - A2NA
J. S. Metcalf - A2NM

626

Monsanto

OUTGOING MESSAGE BLANK
Tele-communications System

DATE	TIME	SENDER'S ACCOUNT NO.
12/14/71	12:25PM	2-00-735.70

INDICATE DESIRED SERVICE → ☐ FULL RATE ☐ DAY LETTER ☐ NIGHT LETTER

Names of addressee and sender must include initials. Show complete address for telegrams and cables.

P.J.A. Marsh
Brussels

Dr. Tombergs to stay at Clayton Inn. He will be met at airport by T. Gossage. I suggest that program consist of full day discussion on December 22 with representatives of Marketing, Research, Environmental and Medical functions. Discussion to be oriented as described in your telex.

W. B. Papageorge
St. Louis

cc: T. L. Gossage - B2SL

DSW 171406

625

For DELAYED service - Forward to transmitting operator IMMEDIATELY after preparation.

STLCOPCB4046032

December 13, 1971

216-379-3483

Mr. H. A. Klein
Senior Product Engineer
B. F. Goodrich Company
Dept. 7867, Building 27D
500 South Main Street
Akron, Ohio 44318

Dear Mr. Klein:

Confirming our telephone conversation, PCB's are not used in the process equipment or as ingredients in the manufacture of the chemicals you purchase from Monsanto for rubber compounding. To the best of our knowledge there are no PCB's in the finished material as delivered to you.

I hope this information is useful to you. If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

cc: H. Kilbourne

DSW 171407

624

December 13, 1971

Mr. J. F. Weaver
Laboratory Supervisor
Department of Water Resources
State Office Building
Annapolis, Maryland 21401

Dear Mr. Weaver:

I am sending under separate cover the samples of Aroclor 1254 and Aroclor 1260 requested in your letter dated November 23. There is no charge for this material.

If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

DSW 171408

623

December 13, 1971

Mrs. Gladys Scannell
Chemistry Laboratory
Louisiana State Department of Health
Louisiana State Office Building
P. O. Box 60630
New Orleans, Louisiana 70160

Dear Mrs. Scannell:

I am sending under separate cover samples of Monsanto's Aroclors to be used as laboratory standards as requested in your letter dated December 1.

If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

DSW 171409

922

STLCOPCB4046035

W. B. Papageorge - General Offices - B2NK

December 8, 1971

BROWN COMPANY

R. S. Trump - B2SJ

Attached please find a copy of my reply to your customer, Brown Company, with regard to the materials which they purchase from us.

W. B. Papageorge

WBP/er

DSW 171410

620

December 1, 1971

Mr. Bruce D. Wagner
Director of Purchasing
Brown Company
Kalamazoo, Michigan 49007

Dear Mr. Wagner:

Your letter dated November 15 requesting a PCB analysis on material purchased by you was forwarded to me for response.

A thorough check of our records indicates you purchase from Monsanto Mersize TFL 70% and Scripset 520, neither of which contain detectable PCB's.

I hope this information is useful to you. If I can be of further help please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

bcc: B. G. Tibbetts - B2SE
C. L. Bradford - B2SG
N. T. Johnson - B2SJ
G. L. Fague - 1320

DSW 171411

619

STLCOPCB4046037

December 7, 1971

Mr. C. W. Hart 609-467-3100
Rollins-Purle Inc.
P. O. Box 221
Bridgeport, New Jersey 08014

Dear Mr. Hart:

I am sending, under separate cover, samples of commercial PCB mixtures for use as laboratory standards.

I have enclosed a copy of Monsanto's analytical methodology which I hope you find useful.

If I can be of further service, please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

Enclosure

WBP:kl

618

DSW 171412

STLCOPCB4046038

December 7, 1971

Dr. George J. Hill
Laboratory Director
Sunshine Biscuits, Inc.
P. O. Box #7
Sayreville, N. J. 08872

Dear Dr. Hill:

I am sending, under separate cover, the samples of Aroclor requested in your letter dated December 1.

If I can be of further service, please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP:kl

617

DSW 171413

STLCOPCB4046039

December 7, 1971

Mr. John Cramsie
St. Regis Paper Company
Corporate Research Headquarters
West Nyack, N. Y. 10994

Dear Mr. Cramsie:

I am sending under separate cover the sample of polychlorinated biphenyl you requested from Monsanto's Mr. Phil Slayton.

I have enclosed a copy of an analytical procedure used with considerable success by Monsanto's laboratories. I hope you find it useful.

I am very interested in studies of PCB migration and hope you are able to share the results of your studies as they develop.

If I can be of further service, please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP:kl

Enclosure

DSW 171414

616

STLCOPCB4046040

December 7, 1971

Mr. George H. Wilde, President
Save our Bays Association
Committee on Resource Management-Associate
2348 Maple Street
Seaford, Long Island, N. Y. 11783

Dear Mr. Wilde:

I am enclosing copies of articles with information on polychlorinated biphenyls (PCB's) which you requested in your letter to the Society of The Plastics Industry dated November 19 and your letter to Monsanto Company dated November 20.

I hope you find this information useful. If I can be of further service, please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

Enclosures

WBP:kl

cc: Mr. C. N. Kracht
The Society of The Plastics Industry, Inc.
250 Park Avenue
New York, New York 10017

bcc: P. L. Slayton - New York

615

DSW 171415

STLCOPCB4046041

December 7, 1971

Dr. Arthur C. Dreshfield, Jr.
Director of Product Development
Fibreboard Corporation
55 Francisco Street
P. O. Box 3611
San Francisco, California 44106

Dear Dr. Dreshfield:

I regret I do not have copies of the talks Elmer Wheeler and I gave at the PCB Workshop of the GMA in Washington. These talks were informally presented from rough notes and relied considerably on our personal experiences and recollections.

I have enclosed copies of articles which I believe convey the basic information we offered. I hope you find this information useful.

If I can be of further service, please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP:kl

Enclosures

DSW 171416

614

RF

W. B. Papageorge - General Offices - B2NK

December 7, 1971

J. Mason - B1SA
H. S. Bergen - B2SA
C. L. Bradford - B2SG

T. L. Gossage - B2SL

I received a call on December 3, 1971 from Mr. Joseph Radzius, Food-Drug Consel Dow-Corning, Midland, Michigan, telephone (517) 636-8964.

Mr. Radzius wanted to discuss vacuum pump fluids with someone in Monsanto. It seems he has a fluid (silicone) which he claims can replace Santovac 1 and Santovac 2 without creating environmental problems.

He will be in Washington, D. C. during the week of December 6 and plans to discuss his fluid with members of the PCB Task Force. He feels that Dow-Corning has an obligation to inform the Task Force of an available vacuum pump fluid replacement for the PCB materials.

He asked about the volume of business we had and whether Monsanto would be interested in discussing his fluid. I informed him I could not divulge the sales information and that I would have someone contact him regarding our thoughts on his fluid.

Will you have someone call Mr. Radzius early during the week of December 13 to determine what he is proposing.

W. B. Papageorge

WBP/kl

DSW 171417

613

W. B. Papageorge - General Offices - B2NK

December 7, 1971

W. R. Corey - A2NA
J. Mason - B1SA

K. Warren Easley
Washington, D. C. - 1920

I telephoned Mr. Wesley R. Koster, Director Chemicals Division, Department of Commerce, (202) 967-2291 to respond to the inquiry he made to you relating to our PCB overseas marketing practices. I told him our U. S. program of curtailed marketing is also being implemented in overseas markets with timing and other factors adjusted to meet local situations and governmental requirements.

Mr. Koster was also interested in the procedure used by Monsanto to insure that the buyer of PCB's did not use them in improper applications. I described in some detail how we screen the customer thoroughly before his name appears on the "approved PCB customer" lists. He was complimentary of Monsanto's approach and expressed the hope that other producers would follow our example worldwide.

W. B. Papageorge

WBP:kl

DSW 171418

612

RF

December 7, 1971

Mr. Joseph Schramm
McKesson Chemical Company
4215 Cresent Street
Long Island City, N. Y. 11101

Dear Mr. Schramm:

Mr. W. C. Moore informed me of your interest in the presence of PCB's in Monsanto's Santobrite.

To the best of our knowledge there are no PCB's in Santobrite nor are there any in the raw materials or process equipment used in the manufacture of Santobrite.

I hope this information is useful to you. If I can be of further service, please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP:kl

cc: W. C. Moore - B2SE
Monsanto Company

DSW 171419

611

STLCOPCB4046045

KF

December 7, 1971

Dr. Aaron Wolkoff
Department of Chemical Engineering
and Applied Chemistry
University of Toronto
Toronto 181, Canada

Dear Dr. Wolkoff:

I regret the confusion caused by the substitution of Aroclor 1016 for Aroclor 1242 in the set of samples I had ordered for you.

Aroclor 1016 is a new PCB mixture which was finally commercialized on September 1, 1971. It is produced by the fractional distillation of Aroclor 1242 to remove most of the higher chlorinated isomers (5, 6, 7 chlorines per group) thereby resulting in a mixture which is relatively more degradable as shown by laboratory testing.

Aroclor 1016 is now used exclusively in U.S. and Canada in the manufacture of capacitors.

I hope this substitution has not inconvenienced you seriously. If Aroclor 1016 is of no interest to you and you prefer a sample of the older Aroclor 1242, please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP:kl

610

DSW 171420

STLCOPCB4046046

R.

December 7, 1971

Dr. R. G. Krishnamurthy: 312-724-8000
Kraftco Corporation
801 Waukegan Road
Glenview, Illinois 60025

Dear Dr. Krishnamurthy:

I propose the following title for my presentation at the January Symposium of the North Central Section of the American Oil Chemists Society.

PCB's - Past, Present, Future

A brief talk describing what PCB's are, how they are manufactured, where they were used, the environmental contamination problem and Monsanto's action to curtail further losses to the environment.

I hope this is adequate. If not, please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP:kl

DSW 171421

609

STLCOPCB4046047

bcc: P. L. Slayton - New York

December 7, 1971

Mr. Robert Pond 617-761-7983
Strippers Unlimited
P. O. Box 45
South Appleboro, Mass. 02703

Dear Mr. Pond:

Monsanto's Phillip L. Slayton informed me of your interest in Monsanto's program for curtailing the use and escape of polychlorinated biphenyls (PCS's) into the environment.

I have enclosed copies of articles relating to this program. I hope you find this information interesting and useful. If I can be of further service, please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP:kl

Enclosures

DSW 171422

608

STLCOPCB4046048

December 6, 1971

Dr. Jeffrey L. Lincer
Section of Ecology and Systematics
Division of Biological Sciences
Langmuir Laboratory
Cornell University
Ithaca, New York 14850

Dear Dr. Lincer:

I appreciate the concern you expressed in your letter dated November 10, relating to control of the ultimate use of PCB's by the buyer. We, too, addressed ourselves to this question early in our curtailment program.

In our system for handling purchase orders for PCB materials we do not honor the order until we are convinced that the buyer understands the PCB problem, has developed the proper methods for handling storage and disposal and the application can be classified as being closed and in transformers, capacitors, or existing (not new) heat transfer systems not associated with food, directly or indirectly, where fire resistance is critical.

Once a buyer has fulfilled these criteria he is noted on an "approved customer" listing for honoring future purchase orders.

I sincerely believe that our customers today are very much aware of the potential problems that can result from misapplication of PCB's. Also, their need for PCB's in their products or systems is so critical that they cannot risk getting their name removed from Monsanto's "approved" list because of any PCB transgressions.

I hope this information is of some use to you. If I can help further please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

bcc: T. L. Gossage - B2SL

607

DSW 171423

December 6, 1971

Dr. E. H. Reynolds
Research Manager
Central Research and Engineering Division
BICC
38 Wood Lane
London W 12 7 DX, England
United Kingdom

Dear Dr. Reynolds:

The information contained in the documents I have sent you is not commercially sensitive, therefore please feel free to quote any of it during your CIGRE meetings.

Best regards.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

606

DSW 171424

STLCOPCB4046050

December 6, 1971

Mr. T. G. Jones, III
Purchasing Agent
Bleached Paper and Board Division
Union Camp Corporation
Franklin, Virginia 23851

Dear Mr. Jones:

Responding to your letter dated November 17, to Monsanto's H. R. Ford, I can state to the best of our knowledge that the Scripset 500 purchased by you from Monsanto does not contain PCB.

I hope this information is useful to you and if I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

cc: H. R. Ford - 1070

bcc: W. C. Moore - B2SC

DSW 171425

605

December 6, 1971

Mr. Edward W. Kamerling
Vice President - Operations
Findley Adhesives, Inc.
3033 West Pemberton Avenue
Milwaukee, Wisconsin 53245

Dear Mr. Kamerling:

To the best of my knowledge and belief the product known as Scripset purchased by your company from Monsanto does not contain polychlorinated biphenyls. The materials used in its manufacture are not contaminated with PCB nor are PCB's used in the manufacturing process.

I hope this information is useful to you. If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

bcc: H. R. Ford - 1070
W. C. Moore - B2SC

604

DSW 171426

STLCOPCB4046052

W. B. Papageorge - General Offices - B2NK

December 6, 1971

K. W. Easley
E. P. Wheeler

M. L. Keplinger
Industrial Bio-Test Labs

W. R. Corey
R. E. Kelly
J. Mason
S. Pickard

Attached is the first draft of an agenda for the PCB meeting to be held on December 20 and 21 at Durham, North Carolina.

Elmer Wheeler, "Kep" Keplinger and I are scheduled to attend. "Kep" will present a short report on the toxicity studies conducted in his laboratories.

W. B. Papageorge

WBP/er

DSW 171427

603

December 6, 1971

Dr. Robert B. Dahlgren
Assistant Leader
Patuxent Wildlife Research Center
Bureau of Sport Fisheries and Wildlife
Laurel, Maryland 20810

Dear Dr. Dahlgren:

The study to which you refer in your letter to Monsanto's Jack T. Garrett dated October 26, has recently been completed by Industrial Bio-Test Laboratories, Inc.

The investigators are now in the process of preparing the final manuscript which will be forwarded to the editors of Toxicology and Applied Pharmacology, the official journal of the Society of Toxicologists. We are very hopeful of early publication, perhaps as early as January or February, 1972.

As soon as the manuscript has been accepted I will send you a preprint which you may quote with appropriate reference that the paper is in print.

I hope the slight delay which I anticipate will not seriously inconvenience you.

If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

cc: J. T. Garrett - A2SA

DSW 171428

602

STLCOPCB4046054

December 6, 1971

Mr. George L. Gutscher
Supervisor, Chemical Engineering
Buick Motor Division
General Motors Corporation
Flint, Michigan 48550

Dear George:

As requested, I have attached a copy of the notice issued by the U.S. Department of Agriculture relating to the use of polychlorinated biphenyls and polychlorinated terphenyls in pesticide formulations.

I have also attached a copy of a letter I addressed to the EPA requesting data which led to the decision to include the chlorinated terphenyls. I have received no response to my inquiry.

I hope you find this information useful. If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

Enclosures

bcc: G. Fague - 1320
C. L. Bradford - B2SG

DSW 171429

601

STLCOPCB4046055

December 6, 1971

Dr. Donald J. Baumgartner
National Environmental Research Center
Environmental Protection Agency
200 SW 35th Street
Corvallis, Oregon 97330

Dear Dr. Baumgartner:

I regret and apologize for the delay in responding to your letter dated September 24.

In mid-1970 Monsanto had announced its intention of discontinuing by August 30, the sale of PCB's to non-controllable open system applications such as specialty paints, adhesives, paper coatings, sealants, industrial and hydraulic fluids. Although the timing was deliberately challenging, a high percentage of the uses were eliminated by August 30. Technological obstacles were finally resolved in the hydraulic fluids and paper coatings applications with total phase-out occurring early in 1971.

The uses to which PCB's are still being applied include electrical transformers, electrical capacitors and closed heat transfer systems which are not food related and in which fire resistance is critical. No fluid with the proper characteristics is today available for these applications.

Control of loss can be exercised by proper handling, storage and disposal methods. To achieve this objective we are cooperating with our customers in the regeneration or disposal by incineration of waste PCB liquids.

As a result of this program sales of PCB's in 1971 dropped more than 40% from sales in 1970, with further reductions anticipated in the future.

DSW 171430

600

I have attached copies of Monsanto news releases and articles relating to our program which I hope you find informative and useful.

If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

Enclosures

bcc: W. Easley - 1920

DSW 171431

December 6, 1971

Dr. Lloyd G. Herman 301-496-6171
Environmental Services Branch
National Institute of Health
Building 13, Room 3K04
Bethesda, Maryland 20014

Dear Dr. Herman:

I am sending under separate cover samples of commercial polychlorinated biphenyl mixtures marketed by Monsanto as Aroclor 1221, Aroclor 1242, Aroclor 1254, Aroclor 1260 and Aroclor 1016 for use as laboratory standards.

If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

DSW 171432

599

STLCOPCB4046058

December 6, 1971

Mr. J. Shepherd
Buick Motor Division
General Motors Corporation
Flint, Michigan 48550

Dear Mr. Shepherd:

Monsanto's George Fague informed me of your interest in the arrival of your samples at our laboratory. We received 15 samples on November 29 and 4 samples on December 1. Analysis will be started soon.

George also reminded me of my negligence in sending analytical methodology and laboratory standards as promised.

I am sending under separate cover samples of Aroclor 1242, Aroclor 1254 and Aroclor 1260. I have enclosed a copy of the analytical procedures used by Monsanto laboratories with considerable success.

I sincerely regret and apologize for the delay and I hope it has not seriously inconvenienced you.

If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

Enclosure

cc: G. Fague

bcc: C. L. Bradford

DSW 171433

598

December 6, 1971

Mr. R. N. Kalmbacher
Purchasing Agent
Atlas Chemical Industries, Inc.
Wilmington, Delaware 19899

Dear Mr. Kalmbacher:

I am sending under separate cover the samples of Aroclor 1254 and Aroclor 1260 requested in your letter dated November 19.

If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

bcc: J. M. Van Gelder -
W. S. Clark - B3NE

DSW 171434

597

STLCOPCB4046060

December 6, 1971

Dr. A. J. Morak
Chief Chemist
Badger Laboratories and Engineering Co.
635 South Oneida Street
Box 363
Appleton, Wisconsin 54911

Dear Dr. Morak:

I am sending under separate cover samples of Aroclor 1254 and Aroclor 1260 requested in your letter to Monsanto's Dr. C. H. Russell dated November 24.

I regret I could not include Aroclor 1248 since we have not manufactured this material for many months and our supply of samples has been exhausted.

If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

DSW 171435

596

STLCOPCB4046061

December 2, 1971

201-773-8200

Mr. Ken Bownes
Inmont Corporation
1255 Broad Street
Clifton, New Jersey 07015

Dear Mr. Bownes:

Attached is a copy of Monsanto's polychlorinated biphenyl analytical methodology which I hope you find useful.

If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

Enclosure

DSW 171436

595

STLCOPCB4046062

December 2, 1971

Miss Deanna Oliveira
Oakridge National Laboratories
Building 92-11
Biology Division
Oakridge, Tennessee 37830

Dear Miss Oliveira:

I regret I have no copies of the Monsanto Technical Bulletins you requested.

I have enclosed a copy of Technical Bulletin O/PL-306A which I hope you find useful.

If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

Enclosure

DSW 171437

534

STLCOPCB4046063

December 2, 1971

Mr. L. V. Haff
Allied Chemicals Corporation
Syracuse Technical Center
Box 6
Solvay, New York 13209

Dear Mr. Haff:

I am sending under separate cover the samples of polychlorinated biphenyls which you requested for laboratory standards.

If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

DSW 171438

593

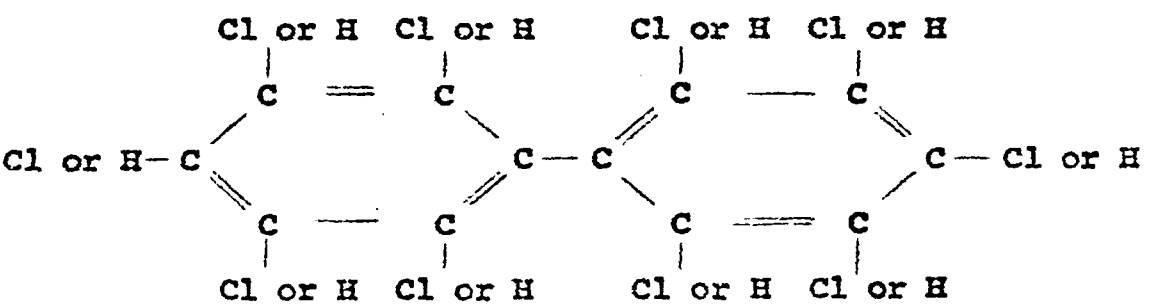
December 1, 1971

Dr. E. Birmingham
Director of Research
Deltec International Limited
2801 Ponce DeLeon Boulevard
Coral Gables, Florida 33134

Dear Dr. Birmingham:

The chemical name for Monsanto's Aroclor 1242 is polychlorinated biphenyls.

The formula may be represented as follows:



At each carbon hydrogen (H) or chlorine (Cl) may be present. The formula is then written as follows:

$C_{12} H_x Cl_y$ where $x + y = 10$.

I hope this information is helpful. If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

592

DSW 171439

STLCOPCB4046065

NOVEMBER

DSW 171440

November 30, 1971

Dr. Robert W. Risebrough
Associate Research Ecologist
Bodega Marine Laboratory
University of California
P. O. Box 247
Bodega Bay, California 94923

Dear Dr. Risebrough:

Attached is a copy of a Monsanto press release relating to the release of PCB production information to the Department of Commerce.

I hope you find this information useful. If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

Enclosure

DSW 171441

591

STLCOPCB4046067

November 30, 1971

Mr. W. A. Dippel
E. I. DuPont Company
Easter Laboratory
Gibbstown, New Jersey 08027

Dear Mr. Dippel:

I am sending under separate cover the samples of Aroclor 1242, Aroclor 1254 and Aroclor 1260 you requested for laboratory standards.

I have enclosed a copy of Monsanto's analytical methodology for polychlorinated biphenyls which I hope you find useful.

If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

Enclosure

DSW 171442

590

STLCOPCB4046068

November 30, 1971

Dr. Edward D. Goldberg
Professor of Chemistry
Scripps Institution of Oceanography
University of California
La Jolla, California 92037

Dear Dr. Goldberg:

Enclosed is a copy of the Monsanto press release relating to the release of PCB production numbers to the Department of Commerce.

We are extremely anxious to have this information used properly to increase understanding of the PCB environmental problem. To achieve this objective we are willing to discuss in depth with concerned scientists the significance of these numbers with consideration given to application, control of loss, biodegradation and isomer content.

I hope this information is useful to you and if I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

Enclosure

DSW 171443

589

November 30, 1971

Mr. Bill Scott 914-345-2102
Union Carbide
Tarrytown, New York 10591

Dear Mr. Scott:

I am sending under separate cover samples of Aroclor 1221, Aroclor 1242, Aroclor 1254 and Aroclor 1260.

I regret I cannot include samples of Aroclor 1232 and Aroclor 1248 since these materials have not been manufactured recently and the supply of samples has been exhausted. I hope the lack of these two samples does not seriously inconvenience you.

If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

DSW 171444

578

STLCOPCB4046070

November 30, 1971

Dr. H. S. Olcott
Professor, Marine Food Science
Institute of Marine Resources
College of Agricultural and Environmental Sciences
University of California, Davis
Davis, California 95616

Dear Dr. Olcott:

I appreciate your continuing interest in PCB's and your comment relating to the continued belief among some scientists that Monsanto is withholding other PCB information in addition to the production figures.

To the best of my knowledge and belief Monsanto has shared its PCB experience openly in every regard except for the production information. I am pleased to attach a copy of a Monsanto press release relating to the reporting of production data to the Department of Commerce. In addition we are willing to discuss in considerable detail with concerned scientists the significance of these numbers regarding the impact of PCB on the environment.

The presence of PCB's in poultry in Minnesota has not been definitely explained primarily because the source of contamination has been removed. All heat transfer systems which could have contributed have been drained and the fluid replaced with a non-PCB material. No one has yet admitted that his product was the source.

A repeat of the rice bran oil incident can be avoided by the elimination of PCB heat transfer fluids in food related systems. This approach is the one Monsanto is following.

DSW 171445

587

The cause of "Yusho" disease has not been definitely attributed to PCB. Chlorinated dibenso furans or dioxins could have been present and could cause the observed symptoms. The FDA, among others, is still investigating this possibility.

Best regards.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

Enclosure

DSW 171446

November 30, 1971

Mr. A. M. Salazar
National Electrical Manufacturers Association
155 East 44th Street
New York, New York 10017

Dear Al:

Enclosed is a copy of the Monsanto press release relating to the release of PCB production numbers to the Department of Commerce which I offered to send you.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

Enclosure

576

DSW 171447

STLCOPCB4046073

November 29, 1971

Mr. Gustav Kuhn
Quaker Oats Research Laboratories
617 West Main Street
Barrington, Illinois 60010

Dear Mr. Kuhn:

I am sending under separate cover samples of Aroclor 1242, Aroclor 1254 and Aroclor 1260 for use as laboratory standards.

I have enclosed a copy of Monsanto's analytical methodology which I hope you find useful.

If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

Enclosure

DSW 171448

584

~~585~~

STLCOPCB4046074

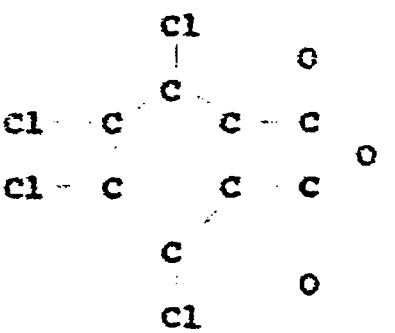
W. B. Papageorge - General Offices - B2MK

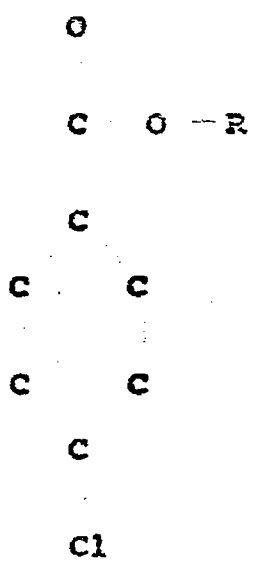
November 29, 1971

D. Danna - B2MA
H. S. Bergen - B2SA
J. R. Durland - 5260
S. Ueno - 5260

W. R. Richard - T3A

During his recent U.S. trip Mr. S. Ueno requested that I get for him any information we had on the following types of chemicals:





DSW 171449

5J3

STLCOPCB4046075

Have we any information on these materials regarding possible manufacture, applications, degradability and toxicity which we can share with M&K?

W. B. Papageorge

WBP/er

DSW 171450

STLCOPCB4046076

Monsanto

OUTGOING MESSAGE BLANK
Telecommunications System

DATE 11/29/71 | TIME 12:15 PM | SENDER'S ACCOUNT NO. 2-00-735.70

INDICATE DESIRED SERVICE → ☐ FULL RATE ☐ DAY LETTER ☐ NIGHT LETTER

Names of addressee and sender must include initials. Show complete address for telegrams and cables.

P. J. A. Marsh
Brussels

VISIT BY DR. TONDEUR IS EXCELLENT IDEA. S. WHEELER AND I ARE ATTENDING MEETING IN DUBLIN ON DEC. 20-21.

W. B. PAPENFUSS
ST. LOUIS

cc: T. L. Gossage - B2GL
H. A. Vodden - S470
C. L. Bradford - B2GC
R. A. Baxter - S470

DSW 171451

582

FOR BETTER *service* – Forward to transmitting operator IMMEDIATELY after preparation.

STLCOPCB4046077

W. B. Papageorge - B2NK

November 29, 1971

SCHEDULE FOR BIODEGRATION PROGRAM

R. E. Kelly - A2SA
C. Paton - C2SF
W. R. Richard - T3A

Mr. E. S. Tucker
1760

Because of recent marketing developments C. Paton recommends that we eliminate MCS 1109, MCS 1208 and MCS 1179 from the program and that MCS 1207 be given priority just below MCS 1172.

Will you arrange for the change?

W. B. Papageorge

WBP/bt

DSW 171452

580

STLCOPCB4046078

November 29, 1971

Mr. Neil H. Mermelstein
Associate Editor
Food Technology
Institute of Food Technologists
221 N. LaSalle Street
Chicago, Illinois 60601

Dear Mr. Mermelstein:

Enclosed are copies of polychlorinated biphenyl articles I promised to send you.

I hope you find this information useful and if I can be of further service please let me know.

Sincerely,

W. B. Papageorge, Manager
Environmental Protection

WBP/bt

Enclosure

DSW 171453

579

STLCOPCB4046079

November 29, 1971

Mr. C. M. Maher
Celanese Corporation
522 Fifth Avenue
New York, New York 10036

Dear Mr. Maher:

I am sending under separate cover samples of polychlorinated biphenyls you requested for use as laboratory samples.

I have enclosed a copy of an analytical methodology which is used by Monsanto laboratories. I hope you find this information useful.

If I can be of further service please let me know.

Sincerely,

W. B. Papageorge, Manager
Environmental Protection

EBP/bt

Enclosure

DSW 171454

578

STLCOPCB4046080

November 29, 1971

Dr. A. W. Dyck 312-827-7127
Paper Industries Management Association (PIMA)
2570 Devon Avenue
Des Plaines, Illinois 60018

Dear Dr. Dyck:

Enclosed are copies of the articles relating to polychlorinated biphenyls which Monsanto's Mr. E. V. John offered to mail to you. I hope you find this information useful.

We are sorry for the delay in sending this information, but the first package was inadvertently sent to an incorrect address. We hope that this delay has not inconvenienced you.

If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

Enclosures

DSW 171455

577

STLCOPCB4046081

November 29, 1971

Miss Rebecca A. Dragiff
4 Parting Brook Road
New Canaan, Connecticut 06840

Dear Miss Dragiff:

We are in receipt of your letter of November 26, with regard to the information sent to you that should have gone to a Dr. Dyck.

You may keep or dispose of this literature as you wish. We will make up another set and send it on to Dr. Dyck.

We are sorry for this error and wish to thank you for calling it to our attention.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

DSW 171456

576

STLCOPCB4046082

November 29, 1971

Dr. D. Beall
St. Regis Paper Company
P. O. Box 5325
Dallas, Texas 75222

Dear Dr. Beall:

Enclosed is a copy of the FDA method for determining polychlorinated biphenyls as it appeared in the Journal of the Association of Official Analytical Chemists.

I hope you find this useful. If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

Enclosure

DSW 171457

575

STLCOPCB4046083

W. B. Papageorge - General Offices - B2NK

November 24, 1971

H. O. Hehner - 1760

Attached please find copy of memo and forms as you requested.

W. B. Papageorge

WBP/er

DSW 171458

574

STLCOPCB4046084

Monsanto

OUTGOING MESSAGE BLANK
Telecommunications System

DATE 11/24/71 | TIME 3:45 pm | SENDER'S ACCOUNT NO. 2-00-735.70

INDICATE DESIRED SERVICE → ☐ FULL RATE ☐ DAY LETTER ☐ NIGHT LETTER

Names of addressee and sender must include initials. Show complete address for telegrams and cables.

S. UENO
MONSANTO MITSUBISHI
TOKYO

CABLE: MANASHI TOKYO

RE: TELEX NOVEMBER 22 NO MATERIAL OTHER THAN BENZENE HAS BEEN USED AS RAW MATERIAL IN BIPHENYL FURNACE PILOT STUDIES. WE HAVE TENTATIVE PLANS FOR STUDIES IN FUTURE.

W. B. PAPAGEORGE

CC: J. R. Durland
D. Danna

DSW 171459

573

for BETTER service – Forward to transmitting operator IMMEDIATELY after preparation

STLCOPCB4046085

November 24, 1971

Miss C. Racette
Brownville Paper Company
Brownville, New York 13615

Dear Miss Racette:

I am sending under separate cover the samples of polychlorinated biphenyls you requested for laboratory standards.

I have enclosed a copy of the analytical methodology used by Monsanto laboratories. I hope you find this information useful.

If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

Enclosure

DSW 171460

572

STLCOPCB4046086

November 24, 1971

Mr. Pete Belateja 201-567-8000-528
Thomas J. Lipton Company
800 Sylvan Avenue
Englewood Cliffs, New Jersey 07632

Dear Mr. Belateja:

I am sending under separate cover samples of Aroclor 1242, Aroclor 1254 and Aroclor 1260 for use as laboratory standards.

I have enclosed a copy of anaanalytical procedure used by Monsanto laboratories which I hope you find useful.

If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

Enclosure

DSW 171461

571

STLCOPCB4046087

W. B. Papageorge - General Offices - B2NK

November 23, 1971

E. S. Tucker - 1760
E. P. Wheeler - A2SA

R. E. Keller - 1760

Ted Lynn, Analabs, Inc., informes me they are interested in supplying pure PCB isomers to interested laboratories.

If you receive any requests you may wish to refer to:

Mr. Ted Lynn
Analabs, Inc.
80 Republic Drive
North Haven, Connecticut 06473

Phone 203 - 288-8463

W. B. Papageorge

WBP/er

DSW 171462

570

November 23, 1971

Mr. J. S. Carpenter
Purchasing Agent
Film Division
Olin Corporation
Pisgah Forest, North Carolina 28768

Dear Mr. Carpenter:

In response to your letter addressed to Monsanto's Mr. D. E. Randall and dated November 8, I can assure you that PCB's are not to the best of my knowledge and belief present in the maleic anhydride, acrylonitrile and Santicizer 141 which you purchase from Monsanto. PCB's are not used in the process or equipment involved in the manufacture of these materials.

I hope this information is useful to you. If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

bcc: R. F. Sellew - B3NC
F. Sturm - 1070
D. E. Randall - Raleigh, N.C.

DSW 171463

568

November 22, 1971

617-223-7370

Mr. Alan Ikalainen
Environmental Protection Agency, Region 1
240 Highland Avenue
Needham Heights, Massachusetts 02194

Dear Mr. Ikalainen:

Enclosed are copies of articles relating to polychlorinated biphenyls which I offered to send you.

I hope you find this collection useful and informative. If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

Enclosures

DSW 171464

567

STLCOPCB4046090

November 22, 1971

Dr. James F. Parr
Soil and Water Conservation Research Division
Agricultural Research Service
United States Department of Agriculture
P. O. Drawer U - University Station
Baton Rouge, Louisiana 70803

Dear Dr. Parr:

I am sending under separate cover samples of commercial polychlorinated biphenyl mixtures having a low degree of chlorination. There is no charge for this material.

I regret I do not have pure chemical compounds to offer and I hope your studies are not seriously inconvenienced.

If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

DSW 171465

566

STLCOPCB4046091

November 19, 1971

Dr. A. W. Dyck 312-827-7127
Paper Industries Management Association (PIMA)
2570 Devon Avenue
Des Plaines, Illinois 60018

Dear Dr. Dyck:

Enclosed are copies of the articles relating to polychlorinated biphenyls which Monsanto's Mr. E. V. John offered to mail to you. I hope you find this information useful.

If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

Enclosures

DSW 171466

565

STLCOPCB4046092

W. B. Papageorge - General Offices - B2NK

November 19, 1971

T. L. Gossage - B2SK
J. J. Roder - B2SH
D. E. Roush - B2SH

SANTOTHERM - PORTLAND CEMENT WORKS

Letter JMH to CP dated 11/3/71

C. Paton - B2SH

John Haggert should be informed that chlorinated biphenyls and/or chlorinated terphenyls will not be sold by Monsanto for heat transfer applications.

W. B. Papageorge

WBP/er

DSW 171467

564

STLCOPCB4046093

November 19, 1971

202-296-9126

Mr. Lee Boyd 202-296-1760
American Feed Manufacturers Association
Room 702
725 "K" Street NW
Washington DC 20006

Dear Lee:

Enclosed is the PCB information I offered to send.

I hope you find it useful and if I can be of further help please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

Enclosures

DSW 171468

563

STLCOPCB4046094

November 19, 1971

Dr. Matthew J. Zabik 517-353-6376
Pesticide Research Center
Michigan State University
East Lansing, Michigan 48823

Dear Mat:

I am sending under separate cover the samples of Aroclor 5432 and Aroclor 5460 you requested.

If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

DSW 171469

562

STLCOPCB4046095

November 19, 1971

Dr. R. P. Choi
Analytical Services
Hunt-Wesson Foods, Inc.
1645 West Valencia Drive
Fullerton, California 92634

Dear Dr. Choi:

I am sending under separate cover samples of Aroclor 1254 and Aroclor 1260 as requested in your letter dated November 11.

I have enclosed a copy of Monsanto's Technical Bulletin O/PL-306A which replaced old bulletin 306. I hope you find this information useful. If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

Enclosure

DSW 171470

561

STLCOPCB4046096

November 19, 1971

Mr. Don Nance
GAF Corporation
P. O. Box 6037
Chattanooga, Tennessee 37401

Dear Mr. Nance:

Responding to your inquiry the Sodium Tripolyphosphate and Trisodium Phosphate, crystalline purchased by your company from Monsanto do not contain polychlorinated biphenyls.

I hope this information is useful to you. If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

bcc: Virginia Van Giesen - 1070

DSW 171471

560

STLCOPCB4046097

November 19, 1971

Miss Rebecca A. Dragiff
4 Parting Brook Road
New Canaan, Connecticut 06840

Dear Miss Dragiff:

I am sending under separate cover samples of commercial polychlorinated biphenyl mixtures, Aroclor 1242, Aroclor 1254 and Aroclor 1260.

I have enclosed copies of articles relating to polychlorinated biphenyls. I hope you find this information useful.

If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

Enclosures

DSW 171472

559

STLCOPCB4046098

November 19, 1971

206-425-2150 Ext 701

Mr. Rudy Joyce
Weyerhauser Company
Technical Center
Longview, Washington 98632

Dear Mr. Joyce:

I regret and apologize for the delay in getting the enclosed information to you.

I hope you find it useful. If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

Enclosures

DSW 171473

558

STLCOPCB4046099

November 18, 1971

Dr. E. R. Eckhardt
Product Development and Production Research Department
Wyeth Laboratories Inc.
Mason, Michigan 48854

Dear Dr. Eckhardt:

I am sending under separate cover samples of Aroclor 1254 and Aroclor 1260 requested in your letter dated October 29. There is no charge for this material.

If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

DSW 171474

557

STLCOPCB4046100

November 18, 1971

202-557-7695

Mr. Ben Lim
Room 1116 (Crystal Mall Building Number 2)
Office of Enforcement
Environmental Protection Agency
Washington DC 20460

Dear Mr. Lim:

I am sending under separate cover the samples of Monsanto's Aroclors you requested.

I have enclosed copies of articles relating to polychlorinated biphenyls. I hope you find this collection interesting and informative. If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

Enclosures

DSW 171475

556

STLCOPCB4046101

November 18, 1971

Mr. I. Cohen
Strasburger and Siegel, Inc.
1403 Entaw Place
Baltimore, Maryland 21217

Dear Mr. Cohen:

I am sending under separate cover the polychlorinated biphenyl samples you requested from Mr. W. Clark.

I have enclosed a copy of an analytical procedure used by Monsanto laboratories with considerable success.

I hope this information is useful to you. If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

Enclosure

cc: Mr. W. Clark

DSW 171476

555

STLCOPCB4046102

November 18, 1971

Mr. James Zisson
W. R. Grace and Company
62 Whittemore Avenue
Cambridge, Massachusetts 02140

Dear Mr. Zisson:

I am sending under separate cover samples of commercial mixtures of polychlorinated biphenyls for use as laboratory analytical standards.

I have enclosed two copies of analytical methodology used by Monsanto laboratories with considerable success. I hope you find this procedure useful.

If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

Enclosures

DSW 171477

554

STLCOPCB4046103

November 18, 1971

Dr. James L. Byard
IEPT
Albany Medical College
Albany, New York 12208

Dear Dr. Byard:

Monsanto's E. P. Wheeler informed me of your need for polychlorinated biphenyl laboratory standards. I am sending under separate cover samples of Monsanto's Aroclor 1242, Aroclor 1254 and Aroclor 1260.

If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

cc: E. P. Wheeler

DSW 171478

553

STLCOPCB4046104

W. B. Papageorge - General Offices - B2NK

November 15, 1971

HOLLYWOOD BRANDS - PCB's

Memo HLD to WBP 10/19/71

H. L. Ditty - B2SB

J. S. Crawford - C1NC
W. J. Gissendanner - 1180
D. A. Olson - B2SL

To my knowledge Monsanto does not routinely check any of its products or its raw materials for PCB content.

Random analyses have been made of some products to assure ourselves that no PCB is present. Unless there is good reason to suspect that PCB's are present I do not recommend routine analysis.

A big step taken to assure that contamination does not occur during manufacture is the elimination of the use of PCB's in plant processing heat transfer units.

W. B. Papageorge

WBP/er

DSW 171479

552

November 16, 1971

Mr. Joseph M. Cummins
2142 North 86th Street
Seattle, Washington 98103

Dear Mr. Cummins:

I have enclosed a copy of Monsanto Technical Bulletin O/PL-306A which you requested in your letter dated October 11.

Since you are limited in the number of Aroclors that you can study in the available time I would strongly recommend you select Aroclor 1242 and Aroclor 1254 which were and still are the mixtures of polychlorinated biphenyls in greatest use.

I have seen the references to studies indicating that exposure to ultraviolet light may alter polychlorinated biphenyls. Since Aroclors are mixtures of polychlorinated biphenyl isomers it appears reasonable to assume that some effect may result.

I regret I do not have assay results on each lot of Aroclors we produce. Quality is controlled by observing the physical characteristics of each lot. On occasion our laboratory will randomly test for the presence of chlorinated dioxins or furans. None have been detected.

I hope this information is useful to you. If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

Enclosure

DSW 171480

551

STLCOPCB4046106

November 16, 1971

Mr. Joseph G. Wallmeyer
State Water Control Board
Commonwealth of Virginia
P. O. Box 11143
4010 West Broad Street
Richmond, Virginia 23230

Dear Mr. Wallmeyer:

I am sending under separate cover the samples of Aroclors you requested in your letter dated November 11. There is no charge for these small amounts.

If I can be of further service pleasd let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

DSW 171481

550

STLCOPCB4046107

November 16, 1971

Dr. Kenneth J. Macek
Bionomics, Inc.
790 Main Street
Wareham, Massachusetts 02571

Dear Ken:

I am sending under separate cover the samples of material for evaluation in the pending fish toxicology studies we discussed.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

bcc: J. T. Garrett - A2SA

DSW 171482

549

STLCOPCB4046108

November 16, 1971

Mr. Douglas Amolsch
Dow Chemical Company
P. O. Box 6417
Cleveland, Ohio 44101

Dear Mr. Amolsch:

I am sending under separate cover the samples of Aroclor 1221, Aroclor 1242, Aroclor 1254 and Aroclor 1260 you requested on your Purchase Order 04699 dated November 12.

I regret I could not include a sample of Aroclor 1248. Manufacture of this mixture has been discontinued and the supply of samples has been depleted.

I hope the absence of Aroclor 1248 does not seriously inconvenience you. If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

DSW 171483

548

STLCOPCB4046109

November 15, 1971

Dr. Jeremy J. Hatch
Department of Biology
University of Massachusetts - Boston
100 Arlington Street
Boston, Massachusetts 02116

Dear Dr. Hatch:

I am sending under separate cover the sample of Aroclor 1254 you requested in your letter dated November 10.

If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

DSW 171484

547

STLCOPCB4046110

November 12, 1971

Mr. Jerry Lorenz
TRW Inc.
IRC Boone Division
Greenway Road
Boone, North Carolina 28607

Dear Mr. Lorenz:

I am sending under separate cover the samples of Aroclor 1242 and Aroclor 1254 you requested.

If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

DSW 171485

546

STLCOPCB4046111

Monsanto

OUTGOING MESSAGE BLANK
Telecommunications System

DATE 11/12/71 | TIME 9:30 am | SENDER'S ACCOUNT NO. 2-00-743.53

INDICATE DESIRED SERVICE → ☐ FULL RATE ☐ DAY LETTER ☐ NIGHT LETTER

Names of addressee and sender must include initials. Show complete address for telegrams and cables.

H. A. VODDEN - RUABON

RE: WIGGINS TRAPS PROPOSED ADVERTISEMENT - REFERENCE TO FDA SHOULD BE ELIMINATED BECAUSE APPROVAL HAS NOT BEEN SOLICITED NOR GRANTED.

W. B. PAPAGEORGE
ST. LOUIS

cc: J. Mason - B2SA
H. S. Bergen - B2SA
T. L. Gossage - B2SL

DSW 171486

545

for BETTER *service* - Forward to transmitting operator IMMEDIATELY after preparation.

STLCOPCB4046112

November 15, 1971

Mr. Gerald Calhoun
Metallurgical Department
Chevrolet Motor Division
General Motors Corporation
8435 St. Aubin
Detroit, Michigan 48212

Dear Mr. Calhoun:

I am sending under separate cover the samples of Aroclor 1221, Aroclor 1242, Aroclor 1254 and Aroclor 1260 which you requested.

I have enclosed a copy of the polychlorinated biphenyl analytical methodology used by Monsanto laboratories.

I hope you find this information useful. If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

Enclosure

bcc: C. L. Bradford - B2SG
J. H. Davidson - B2SG
G. F. Fague - 1320

DSW 171487

544

STLCOPCB4046113

November 15, 1971

Mr. Ray J. Barbuto
Standard Brands Chemical Industries
P. O. Drawer K
Dover, Delaware 19901

Dear Mr. Barbuto:

I am sending under separate cover samples of polychlorinated biphenyls to use as laboratory standards.

I have enclosed a copy of a polychlorinated biphenyl analytical procedure used by Monsanto laboratories.

I hope you find this information useful and if I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

Enclosure

bcc: M. Marshall - 1940

DSW 171488

543

STLCOPCB4046114

November 15, 1971

Mr. E. H. Reynolds
Research Manager
BICC Central Research and Engineering Division
38 Wood Lane
London W12 7 DX England
United Kingdom

Dear Mr. Reynolds:

Monsanto's Mr. Paul Benignus informed me of your interest in any information regarding opinions, comments or rulings by governmental agencies relating to polychlorinated biphenyls and the environment.

In the United States virtually every agency that is aware of PCB is deeply concerned but in all instances recognizes that more information is required before the true total effects will be known. In my opinion they are attempting to be responsible and avoid precipitous action.

I have enclosed copies of the only information available relating to agency opinion regarding PCB. One is a copy of information released at a U.S. Food and Drug Administration press briefing. The other is a summary issued by representatives representing five states bordering the Great Lakes.

I hope you find this information useful. If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er
Enclosures

bcc: P. G. Benignus - B2SH
T. L. Gossage - B2SL
P. J. A. Marsh - 5040
R. H. Munch - 1760

DSW 171489

542

November 12, 1971

Mr. A. C. Bowbeer 319-243-5500
Chemplex Company
Box 819
Clinton, Iowa 52732

Dear Mr. Bowbeer:

Enclosed are copies of the articles relating to polychlorinated biphenyls which I offered to send you.

I hope you find these useful.

If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

Enclosures

DSW 171490

540

STLCOPCB4046116

November 15, 1971

Mr. Ray R. Hathaway
153A McReynolds Hall
University of Missouri - Columbia
Columbia, Missouri 65201

Dear Mr. Hathaway:

In responding to your letter dated October 18, I find that I can only guess as to the type of fluid that will actually be used in the proposed Westinghouse plant in Jefferson City. The plant could be designed to handle only a mineral oil base material or a polychlorinated biphenyl base material or both. The data you received from your Electrical Engineering Department indicates a mineral oil base fluid.

If the plant utilizes a mineral oil base transformer oil the water effluent treatment will involve procedures common to low specific gravity materials such as emulsion breaking, phase separation and skimming.

If polychlorinated biphenyl fluid is used the problem becomes more comples. The PCB, being heavier than water, will sink. The heavy phase must be removed and the material either reclaimed or incinerated. Reclaiming might be easily accomplished in the plant or returned to Monsanto. Incineration must occur at temperatures exceeding 1600°F. Monsanto has a unit and will perform the service for 3 cents per pound freight prepaid.

I seriously doubt whether any regulatory agency will tolerate 20 gallons per day of any fluid being discharged into the environment. If polychlorinated biphenyls are involved the level in the effluent must be kept in the parts per billion range. The total PCB's released from the plant should be less than 1 pound per day. To reach this level the water effluent from the plant must be passed through an activated carbon bed.

DSW 171491

539

STLCOPCB4046117

Disposal of the contaminated carbon as well as any other contaminated solid material presents a difficult challenge. At present the only practical disposal method I can recommend is burial in a sanitary landfill.

I hope this sketchy information is helpful in your design. If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

DSW 171492

November 15, 1971

Mr. James Leonard
Technical Supervisor Environmental Laboratories
Weyerhauser Company
P. O. Box 275
Springfield, Oregon 97477

Dear Mr. Leonard:

Confirming our telephone conversation Monsanto has voluntarily restricted the sale of polychlorinated biphenyls for use only in closed systems which are not food related and in which fire and explosion resistance are critical. Examples of these uses include electrical transformers, electrical capacitors and heat transfer systems.

In addition to the benefits derived from polychlorinated biphenyls in these applications, the systems are designed to contain the material and with proper control losses to the environment can be eliminated.

All other uses of polychlorinated biphenyls have been discontinued, the majority of them on August 30, 1970, and the more technically difficult phasing out by the end of April, 1971.

I have enclosed copies of articles relating to polychlorinated biphenyls. I hope you find this information useful. If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

Enclosures

cc: Mr. Roger Sherwood
Department of Environmental Quality
State Office Building
Portland, Oregon

DSW 171493

538

STLCOPCB4046119

November 12, 1971

Mr. David B. Sharples
29501 45th Place South
Auburn, Washington 98002

Dear Mr. Sharples:

I have enclosed copies of articles relating to polychlorinated biphenyls requested in your letter dated November 3.

I hope these arrive in time to be useful in the preparation of your paper.

If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

Enclosures

DSW 171494

537

STLCOPCB4046120

November 11, 1971

Dr. F. A. Gunther
Department of Entomology
University of California
Riverside, California 92507

Dear Dr. Gunther:

Monsanto's Bob Conkin has informed me of your interest in soil degradation of polychlorinated biphenyls (PCB).

You probably have by now received a sample of Aroclor 1254 for use in your studies. As you know this commercial mixture contains the higher chlorinated isomers. You may be interested in concurrently studying the degradation of a mixture which has predominately the lower chlorinated isomers, such as Aroclor 1221. If so, please let me know and I will arrange for the shipment of a sample to you.

Responding to your inquiry relating to Monsanto's interest in a PCB story for publication in Residue Reviews, we would prefer foregoing any decision regarding publication until final results from study programs now underway are available.

I am very interested in all studies involving polychlorinated biphenyls and hope that you will be able to share your test results as they develop.

If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

bcc: R. A. Conkin - V1A
W. R. Richard - T3A
E. P. Wheeler - A2SA
R. E. Keller - 1760
E. S. Tucker - 1760

DSW 171495

536

STLCOPCB4046121

November 12, 1971

Mr. P. E. Katz
Associate Engineer
Electric Engineering Department
Baltimore Gas and Electric Company
Gas and Electric Building
Baltimore, Maryland 21203

Dear Mr. Katz:

Your letter dated October 14 addressed to Mr. D. A. Olson was forwarded to me for response since I am deeplybinvolved in the problem of polychlorinated biphenyls and the environment.

I have enclosed a copy of the Chemical Week article you requested as well as copies of articles relating to PCB.

I hope you find this information useful. If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

Enclosures

DSW 171496

535

STLCOPCB4046122

W. B. Papageorge - General Offices - B2HK

November 11, 1971

KENDALL COMPANY

T. L. Gossage - B2SL
C. Paton - B2SG
J. J. Roder - B2SG

D. E. Roush - B2SG

The use of Therminol FR-1 in the calendar rolls at Kendall Company's Polyken plant in Franklin, Kentucky under the conditions described in your memo dated November 8, is in my opinion a reasonable application to continue.

I strongly recommend that Kendall Company continue to exercise control of leakage and spillage, that they are fully aware of the total problem and that the rolls will not be used in the future on tape, etc. which would be involved with food, feed, pharmaceutical or packaging operations.

W. B. Papageorge

WBP/er

DSW 171497

534

STLCOPCB4046123

W. B. Papageorge - General Offices - B2NK

November 11, 1971

LETTERS TO DIELECTRIC FLUID ACCOUNTS

P. G. Benignus - B2SG
H. B. Bergan - B2SA
T. L. Gossage - B2SL
N. T. Johnson - B2SG
P. S. Park - C1NA

C. Paton - B2SH

Proposed letters look excellent to me.

I have some personal misgivings regarding the situation in which the chairmen of the ANSI sub-committees are both G.E. representatives.

I will discuss this with Paul Benignus and with the G.E. people to confirm that G.E. corporate level has no objections.

W. B. Papageorge

WBP/or

DSW 171498

533

STLCOPCB4046124

November 11, 1971

Mr. A. M. Salazar
National Electrical Manufacturers Association
155 East 44th Street
New York, New York 10017

Dear Al:

Attached is a copy of the FDA press release I promised to get for you.

If I can be of further help please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

Enclosure

DSW 171499

532

STLCOPCB4046125

November 11, 1971

Mr. W. Rhinehart
Central Moloney Inc.
5390 Bircher Blvd.
St. Louis, Missouri

Dear Bill:

Attached is a copy of the FDA press release I promised to get for you.

If I can be of further help please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

Attachment

DSW 171500

November 9, 1971

Mr. Michael Moyer
Wheeling College
Box 350
Wheeling, West Virginia 26003

Dear Mr. Moyer:

Enclosed are copies of articles relating to polychlorinated biphenyls requested in your letter post-dated November 1.

I hope you find these useful in the preparation of your paper.

If I can be of further help please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

Enclosures

DSW 171501

530

STLCOPCB4046127

November 9, 1971

Mr. John L. Clough
Director
Division of Standards and Inspections
Department of Agriculture
State of Delaware
Dover, Delaware 19901

Dear Mr. Clough:

Enclosed are copies of articles relating to polychlorinated biphenyls requested in your letter dated October 28.

I hope you find this information useful. If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

Enclosures

DSW 171502

529

STLCOPCB4046128

November 8, 1971

Dr. Robert D. Prusch
Division of Biological and Medical Sciences
Brown University
Providence, Rhode Island 02912

Dear Dr. Prusch:

I am sending under separate cover a sample of Aroclor 1254 requested in your letter dated October 27. There is no charge for this sample.

I have enclosed copies of literature relating to the polychlorinated biphenyls which I hope you find useful.

If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

Enclosures

DSW 171503

527

STLCOPCB4046129

November 8, 1971

Mr. T. R. Lynn
Analabs, Incorporated
80 Republic Drive
North Haven, Connecticut 06473

Dear Mr. Lynn:

I regret I cannot send you a copy of Monsanto Technical Bulletin O/PL-306 requested in your letter dated November 5 because it has been out of print for about two years.

I have, however, enclosed a copy of a revision, O/PL-306A, which contains all of the physical and chemical characteristic information which appeared in the older version.

I have also enclosed a copy of the article in the "Encyclopedia of Chemical Technology". I hope you find this information useful.

I regret also that I have no pure isomers to share with you. I am not aware of any laboratory which has isolated isomers and can provide laboratories such as yours with samples.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

DSW 171504

November 8, 1971

Mr. D. Doverspike
Product Safety Director
Packaging Department
The Dow Chemical Company
Post Office Box 6417
Cleveland, Ohio 44101

Dear Mr. Doverspike:

A review of our records indicates that the products you purchase from us do not contain polychlorinated biphenyls (PCB's) nor are PCB's involved in the manufacturing process.

We do perform quantitative PCB analyses on raw materials and finished products, but only if there is reason to suspect presence of the material.

I hope this information is useful to you. If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

DSW 171505

52

STLCOPCB4046131

W. B. Papageorge - General Offices - B2NK

November 8, 1971

B. G. Tibbetts - B2SE
C. Paton - B2SH

D. H. Lewis - 1180

Your call report dated October 22 relating to Shawano Paper Co. call on October 13 raised the question regarding the existence of a simplified PCB analytical method.

Unfortunately there is no simple determination known. PCB detection methods are among the most sophisticated involved in industry.

I have attached a copy which you may share with anyone.

W. B. Papageorge

WBP/er

Enclosure

DSW 171506

52

STLCOPCB4046132

November 8, 1971

412-322-4400 Ext 228

Mr. John Orum
Allis-Chalmers
Columbus and Preble Avenues
Pittsburgh, Pennsylvania 15233

Dear Mr. Orum:

Enclosed is a copy of the material given attendees at the September 29, 1971 FDA PCB press briefing held by Dr. Charles C. Edwards, Commissioner, Food and Drug Administration.

I hope you find the material interesting and useful. If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

Enclosure

DSW 171507

523

STLCOPCB4046133

November 8, 1971

Mr. W. Evans Howle
Sonoco Products Company
Hartsville, South Carolina 29550

Dear Mr. Howle:

I am sending under separate cover samples of Aroclor 1221, Aroclor 1242, Aroclor 1254 and Aroclor 1260 as requested in your purchase order 11322 dated November 2. There is no charge for these samples.

I regret I could not send you samples of the other Aroclors listed because manufacture has been discontinued and our supply of samples has been depleted. I hope the lack of material does not seriously inconvenience you.

If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

DSW 171508

523

STLCOPCB4046134

November 8, 1971

Mr. Thomas W. Busch
Vice President
Technical Research and Development
Appleton Papers, Inc.
P. O. Box 348
Appleton, Wisconsin 54911

Dear Mr. Busch:

Mr. T. L. Gossage of Monsanto has informed me of your interest in the biodegradability and toxicity of monoisopropyl biphenyl (MIPB) supplied by Monsanto as a replacement solvent in the production of NCR paper.

We have tested MIPB in a semicontinuous activated sludge system and found it to be readily degradable.

We have had the material tested for acute oral and skin absorption toxicity and for potential primary skin and eye irritation. I believe that copies of the results of these tests were forwarded to NCR and the information is probably available to you. If you do not have easy access to it I can readily send copies to you.

I hope this information is helpful and if I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

DSW 171509

521

STLCOPCB4046135

November 5, 1971

Mr. Louis W. Lefke
Director, Solid Waste Research Division
National Environmental Research
Center - Cincinnati
Environmental Protection Administration
5555 Ridge Avenue
Cincinnati, Ohio 45268

Dear Mr. Lefke:

As discussed over the telephone we would appreciate the appointment of a representative of your division to work with members of industry and the government on American National Standards Institute Committee C-107.

The committee has been formed to consider the polychlorinated biphenyl (PCB) environmental problem and how it relates to the electrical industry. As you know the largest remaining uses of polychlorinated biphenyls are as insulating fluids, referred to as askarels by the industry, in transformers and capacitors.

The objectives of the committee are as follows:

1. Develop procedures and guides for safe use, maintenance and disposal of askarel and askarel soaked materials used in electrical equipment.

2. Serve as a source for technical information and advice for federal, state and local authorities and for the information of all concerned.

3. Encourage the development of suitable disposal facilities and maintain a list of their capabilities and locations for the information of all concerned.

DSW 171510

572

STLCOPCB4046136

4. Serve as the advisory group for U.S. participation in CEE, IEC, COPANT, CIGRA and other international organizations.

We sincerely believe that the participation of your representative on the steering and working committees will be very helpful in achieving these objectives.

A meeting of the Steering Committee has been scheduled in St. Louis on November 11. I recognize that the timing is probably not too convenient but I hope that someone from your organization can be selected in time to participate.

Mr. Paul Benignus of Monsanto has been appointed chairman of the Steering Committee and can help your representative with the meeting details.

Sincerely,

W. B. Papageorge, Chairman
ANSI Committee C-107

WBP/bt

cc: Mr. A. M. Salazar - NEMA
Mr. P. G. Benignus - Monsanto

DSW 171511

STLCOPCB4046137

November 5, 1971

Mr. Ernest S. Windham
Chief Food Chemist
Division of Veterinary Medicine
Walter Reed Army Institute of Research
Walter Reed Army Medical Center
Washington, D.C. 20012

Dear Mr. Windham:

Reference: MEDEC-2N

I am sending under separate cover samples of Aroclor 1242 and Aroclor 1254 as requested in your letter dated November 2. There is no charge for these samples.

If I can be of further service please let me know.

Sincerely,

W. B. Papageorge, Manager
Environmental Protection

WBP/bt

DSW 171512

November 4, 1971

Dr. Robert W. Risebrough
Associate Research Ecologist
Bodega Marine Laboratory
University of California
P. O. Box 247
Bodega Bay, California 94923

Dear Dr. Risebrough:

I understand and respect the strong belief you express in your letter of October 25 that in your opinion the environment cannot adequately be protected unless it is possible to relate PCB production figures and environmental input to contamination levels in fish and other components of the biosphere.

It is the Company's position with respect to possible PCB contamination of the environment that our responsibilities should and do include not only consideration of our employes, shareholders and customers but also consideration of all other persons who may eventually be affected by such contamination.

It is with these responsibilities in mind that we have been reluctant to divulge PCB usage numbers to the general public. We are extremely concerned and sincerely believe that abstract production figures can be misunderstood, misinterpreted and misapplied to the detriment of the interests of both the public and the Company.

To fully comprehend the significance of production numbers one must consider in depth the conditions under which PCB's are manufactured, stored, shipped and used. Also, estimates must be made on quantities of the product which have escaped in the past and are presently escaping into the environment. The isomer content of each commercial PCB mixture must be known and the relative degradability of each isomer must be considered. I am certain you can appreciate the overall complexity of such a study.

DSW 171513

Monsanto has been repeatedly accused of callously refusing to divulge usage data. On the contrary, we have on many occasions expressed our willingness to disclose such information to responsible members of governmental agencies on a confidential basis to enable them to correctly establish the present and future levels of PCB's escaping to the environment.

As you are already aware, we have announced publically our intention of supporting and working closely with the Joint Agency Task Force which was established recently to study the PCB problem. We have already attended a series of meetings with Dr. Edward J. Burger, Executive Office of the President-Office of Science and Technology. Dr. Burger is the coordinator of this task force and we have agreed to supply detailed statistical information to enable his group to investigate the present and future build-up of PCB's in the environment. We are currently preparing detailed information of U.S. manufacture, sales, and usage patterns for PCB's covering a period of several years. This information will be amplified by detailed discussions with Dr. Burger and his colleagues to supply them with the maximum amount of information which will enable them to complete their studies.

We believe the actions we are now taking in cooperating with the Joint Agency Task Force are in the best interest of the general public and we are certain that when this work has been completed information will be made available to the public as part of a complete and thorough scientific study.

Sincerely,

W. B. Papageorge, Manager
Environmental Protection

WBP/bt

cc: Professor Edward D. Goldberg
Scripps Institution of Oceanography
La Jolla, California

DSW 171514

cc: The Honorable George McGovern
United States Senate
Washington, D.C. 20510

The Honorable Gaylord Nelson
United States Senate
Washington, D.C. 20510

Dr. H. S. Olcott
Professor, Marine Resources
College of Agriculture & Environmental Sciences
University of California, Davis
Davis, California 95616

Mr. Michael W. Palmer
Environmental Defense Fund
2728 Durant Avenue
Berkeley, California 94704

bcc: H. H. Bible
W. R. Corey
C. P. Cunningham
E. V. John
J. Mason
E. J. Putzell, Jr.

DSW 171515

November 4, 1971

Mr. John Acklin
Technical Director
Commercial Division
Calgon Corporation
P. O. Box 147
St. Louis, Missouri 63166

Dear Mr. Acklin:

As discussed over the telephone today the phosphates and ACL-59 you purchase from Monsanto do not contain polychlorinated biphenyls (PCB).

I have enclosed a copy of a polychlorinated biphenyl analytical procedure which is used with considerable success by Monsanto laboratories. I hope you find this information useful.

If I can be of further service please let me know.

Sincerely,

W. B. Papageorge, Manager
Environmental Protection

WBP/bt
Enc.

cc: Mr. R. P. Langguth

DSW 171516

517

STLCOPCB4046142

November 4, 1971

Mr. Kenneth D. Smith
Executive Vice President
American Dehydrators Association
800 West 47th Street
Kansas City, Missouri 64112

Dear Mr. Smith:

To my knowledge there are no PCB's sold to or used by the animal fat or vegetable oil industries.

In the past, before Monsanto's PCB curtailment program became effective, some fat and oil processors used heat transfer fluids containing PCB's in their processing equipment. It is conceivable that leaks in such equipment could contaminate the fat or oil. It is precisely for this reason that PCB's are no longer sold to these systems.

PCB's are highly fat soluble and would tend to concentrate in the fatty tissue of animals or in the vegetable oils. Although remote, the possibility of animal or crop contamination does exist and would account for the presence of PCB's in the final product.

As you know the search for sources of contamination can be difficult. Do you have enough data to establish any patterns such as geographic area, time of year, source of fat or oil, equipment involved, laboratories involved, etc.?

I would like to help further and hope you can forward any new clues you may acquire.

Sincerely,

W. B. Papageorge, Manager
Environmental Protection

WBP/bt

DSW 171517

5k

November 4, 1971

Mr. E. M. Grenning
#9 Lakeside Overlook
Rockville, Maryland 20850

Dear Mr. Grenning:

Enclosed is the PCB material I offered to send.

I hope you find it useful and if I can be of further service please let me know.

Sincerely,

W. B. Papageorge, Manager
Environmental Protection

WBP/bt
Enc.

DSW 171518

W. B. Papageorge - General Offices

November 4, 1971 H. A. Vodden - 5470

Mr. P. J. A. Marsh
Brussels - 5040

I believe you have a copy of an analytical methodology packet but I have enclosed a recently revised version which I share freely with all types of laboratories.

W. B. Papageorge

/bt
Enc.

DSW 171519

STLCOPCB4046145

November 4, 1971

Dr. Frank Scardiglia
Director, Polymer Physics
Dart Industries
115 Century Road
Paranus, New Jersey 07652

Dear Dr. Scardiglia:

I am sending under separate cover samples of polychlorinated biphenyls to be used as laboratory standards.

I have enclosed a copy of a polychlorinated biphenyl analytical methodology used by Monsanto laboratories.

I hope you find this information useful and if I can be of further service please let me know.

Sincerely,

W. B. Papageorge, Manager
Environmental Protection

WBP/bt
Enc.

DSW 171520

513

STLCOPCB4046146

November 4, 1971

Mr. Edward L. Raab
Manager of Materials Engineering
Transformer Division, Bldg. 11-223
General Electric Company
Pittsfield, Massachusetts 01201

Dear Ed,

I apologize for my overdue response to the questions you asked of Paul Benignus several weeks ago.

I have attached copies of summaries of the acute toxicity and chronic toxicity studies Monsanto has sponsored. As you can see nothing new has been revealed from what we have known for some time.

As you probably noted in the FDA press release information I sent you, Dr. Albert Kolbye of FDA concurs with our opinion that PCB's are not an imminent hazard to humans or domestic animals.

The latest information we have on the Japanese incident is well summarized in the FDA release. Dr. Kolbye indicated the FDA was sending representatives to Japan within two weeks to discuss the incident in depth with the Japanese authorities. In the meantime we have requested from our Japanese partners help in securing and translating appropriate documents concerning the incident.

The biogradability studies at Ruabon, Wales continue at their normal slow pace with no new information. The studies continue to confirm that the lower chlorinated biphenyls can be degraded fairly easily; the higher chlorinated isomers are resistant.

In the United Kingdom, Monsanto, which is the sole producer, is following the same marketing policy we have set for the U.S. There is no government ban nor do we expect one.

DSW 171521

5/12

STLCOPCB4046147

Other than the news releases we issued in April and July, 1970 we have not prepared any to combat the recent adverse publicity in the press. Right or wrong it has been our feeling that we should not be constantly reacting to every untrue statement which appears.

Our discussions with employees have been conducted by the supervisors and foremen in a very informal manner, therefore we have no formal manuscript to send you. We have been following our policy of being open and candid with our people. In every instance the response has been one of relative unconcern, primarily because their personal experience with the PCB's has not indicated that any problem exists.

I hope this information is useful to you. I again apologize for the delay and I hope I did not cause any serious inconvenience.

Sincerely,

W. B. Papageorge, Manager
Environmental Protection

WBP/bt
Attachment

cc: Mr. P. B. Benignus
Mr. T. L. Gossage
Mr. C. Paton

November 4, 1971

Mr. Paul Thompson
Bestpak, Inc.
Natick, Massachusetts 01760

Dear Mr. Thompson:

Your letter dated October 18 has been forwarded to me for response since I am deeply involved in the problem of PCB and the environment.

As a direct result of Monsanto's voluntary curtailment of the sale of PCB's you should not be concerned with the presence of PCB's in any of the materials you handle except as a contaminant.

Contamination could result from the past use (prior to August 30, 1970) of PCB's in such applications as paints, adhesives, inks, sealants, wax extenders, heat transfer fluids and hydraulic fluids. It is possible that many of these materials made with PCB's as an ingredient are still available from old inventories.

I have enclosed copies of articles relating to PCB's which I hope you find useful.

If I can be of further service please let me know.

Sincerely,

W. B. Papageorge, Manager
Environmental Protection

WBP/bt
Enc.

DSW 171523

STLCOPCB4046149

November 4, 1971

Mr. Carl Graham
Amway Corporation
7575 East Fulton Road
Ada, Michigan 49301

Dear Mr. Graham:

Enclosed is a copy of the polychlorinated biphenyl (PCB) analytical methodology which I offered to send.

I hope your laboratory personnel find this information useful. If they have any questions regarding the procedure I recommend they contact Dr. E. Scott Tucker, 1700 South Second Street, St. Louis, Missouri 63188, telephone (314) 621-4000, ext. 3480.

If I can be of further service please let me know.

Sincerely,

W. B. Papageorge, Manager
Environmental Protection

WBP/bt
Enc.

cc: Mr. J. Livengood

DSW 171524

510

STLCOPCB4046150

W. B. Papageorge - General Offices

November 4, 1971

J. R. Durland - 5260
T. Katayama - 5260
S. Uneno - 5260
D. Danna - B2N4

Mr. Kanea Murakami
Tokyo - 5260

I understand and appreciate the concern you expressed regarding the PCB problem and the possible actions which your government might take.

I hope the discussions in St. Louis with Mr. S. Uneno and Mr. T. Katayama were informative and useful. Although we would like to have additional information, the time and high costs which would be involved cannot always be justified. At present Mr. Uneno and Mr. Katayama have all of the available information on the PCB problem. As soon as we receive reports of toxicity and biodegradation studies now being prepared I will forward them to you.

W. B. Papageorge

/bt

DSW 171525

STLCOPCB4046151

W. B. Papageorge - General Offices

November 4, 1971

H. S. Bergen - B2SA
W. R. Corey - M2HA
J. Mason - B2SA

Mr. J. R. Durland
5260

During my discussions with Messrs. Katayama and Uneno I was left with the impression that they were seriously considering recommending to MMK's directors that the manufacture of polychlorinated biphenyls by MMK be discontinued.

If MMK reaches this decision the manner in which it is announced could have a serious impact on Monsanto and its PCB policy worldwide.

Will you impress all concerned MMK personnel with the concern we have and the need for timely and thorough communication of their plans with Monsanto.

W. B. Papageorge

/bt

DSW 171526

November 4, 1971

Dr. Jeffrey L. Lincer
Section of Ecology and Systematics
Division of Biological Sciences
Building 6, Langmuir Laboratory
Cornell University
Ithaca, New York 14850

Dear Dr. Lincer:

Monsanto's T. L. Gossage has asked me to respond to your letter dated October 22 since I am deeply involved in the problem of PCB's and the environment.

The policy of voluntary curtailment of the sales of PCB's established by Monsanto in the U.K. on March 1, 1971 was implemented first in the U.S. on August 30, 1970. The only applications which now utilize PCB's are electrical transformers, electrical capacitors and closed heat transfer systems in non-food use when fire resistance is critical.

To supply these limited markets we have restricted the manufacture of polychlorinated biphenyls to these mixtures:

> Aroclor 1221, Aroclor 1242, Aroclor 1254, and Aroclor 1260. A refined version of Aroclor 1242 from which the higher, more persistent chlorinated isomers have been removed was introduced commercially on September 1, 1971 for use in electrical capacitors. This material is referred to as Aroclor 1016.

The question relating to the presence of PCB's in wildlife still remains inadequately answered. We can only speculate, as you no doubt have, that the mode of movement in the environment of the more persistent isomers has been primarily through natural water systems and secondarily through atmospheric pollution via vaporization resulting from inadequate incineration.

DSW 171527

4716

STLCOPCB4046153

Monsanto has conducted toxicological studies to establish the chronic effect of PCB's at low levels. The results of these studies were reported in March, 1971 in Washington, D.C. at the annual meeting of the Society of Toxicologists. The authors are now preparing the final drafts for publication in the Society's journal in the very near future. Because of the imminent date of publication I do not believe it would be appropriate to prematurely divulge the data. I have attached a copy of the abstract which I hope you find useful.

I regret I cannot send you a copy of Monsanto Technical Bulletin O/PL-306 because it has been out of print for approximately two years. I have enclosed a revision (O/PL-306A) which contains the physical and chemical characteristics which were formally included in the older version.

I hope my comments are helpful. If I can help further please let me know.

Sincerely,

W. B. Papageorge, Manager
Environmental Protection

WBP/bt
Enc.

cc: Mr. T. L. Gossage

DSW 171528

November 3, 1971

Mr. Harris Fischer 516 - 234 - 2622 Ext 54
Suffolk County Department
of Environmental Control
1324 Motor Parkway
Hauppauge, New York 11787

Dear Mr. Fischer:

Enclosed is the polychlorinated byphenyl information I offered to send.

I hope you find it useful and if I can be of further service please let me know.

Sincerely,

W. B. Papageorge, Manager
Environmental Protection

WBP/bt
Enc.

DSW 171529

STLCOPCB4046155

November 3, 1971

Mr. P. W. Anderson
U. S. Geological Survey
Box 1238
Post Office Building
Trenton, New Jersey 08607

Dear Mr. Anderson:

Enclosed are copies of articles relating to polychlorinated biphenyls which Mr. Ed Pustay requested.

I hope you find this information useful to you. If I can be of further service please let me know.

Sincerely,

W. B. Papageorge, Manager
Environmental Protection

WBP/bt
Enc.

cc: Mr. Ed Pustay

DSW 171530

5

STLCOPCB4046156

November 3, 1971

Mr. A. E. Davis
California Manufacturers Assoc.
P. O. Box 1138
Sacramento, California 95805

Dear Mr. Davis:

Enclosed are the copies of articles relating to polychlorinated biphenyls which I offered to send.

If, after you have had an opportunity to review this information, you believe I can be of further service please let me know.

Sincerely,

W. B. Papageorge, Manager
Environmental Protection

Phone: (314) 694-4051

WBP/bt

Enc.

cc: R. L. Brandenburger
San Francisco

bcc: D. J. Forrestal - C2SA
E. V. John - C2SE

DSW 171531

303

STLCOPCB4046157

November 2, 1971

Dr. Robert E. Lang
Chief Chemist, Laboratory Division
Bureau of Customs
201 Varick Street
New York, New York 10014

Dear Mr. Lang:

Reference: LAB-344

Aroclor 1248 was at one time one of several Aroclors manufactured by Monsanto Company. Because of the environmental problems which may result from the polychlorinated biphenyls present in Aroclor 1248 the material has not been manufactured or marketed for several months.

I have enclosed copies of literature describing other Aroclors as well as a copy of our current Product Catalog.

I hope this information is useful to you and if I can be of further service please let me know.

Sincerely,

W. B. Papageorge, Manager
Environmental Protection

WBP/bt

Enc.

cc: Mr. M. S. McCauley -
Washington

DSW 171532

502

STLCOPCB4046158

November 2, 1971

Mrs. Barbara Scott
Department of Biochemistry
McMaster University
Hamilton, Ontario
Canada

Dear Mrs. Scott:

I regret I cannot at this time forward to you the detail data of the animal studies as you requested in your letter dated October 22.

Preliminary data was presented in a paper given at the March, 1971 meeting in Washington, D.C., of the Society of Toxicologists and a final draft is now in preparation for publication in the Society's journal in the very near future. Because of the imminent publication date I do not believe it would be appropriate for me to prematurely release the information.

I have enclosed a copy of the abstract of the March presentation which I hope you find useful. As soon as the final report is available I would be pleased to send a copy to you.

Sincerely,

W. B. Papageorge, Manager
Environmental Protection

WBP/bt

Enc.

DSW 171533

501

STLCOPCB4046159

November 2, 1971

Mr. O. V. Herrell
Mead Johnson and Company
Evansville, Indiana 47721

Dear Mr. Herrell:

A copy of Dr. D. L. Timma's memorandum to you dated September 24 was forwarded to me for response since I have been assigned the responsibility of keeping current on the total PCB problem.

Today polychlorinated biphenyls (PCB's) are sold only for use in electrical transformers, electrical capacitors, and heat transfer systems in non-food use. Prior to August 30, 1971 they were used in such applications as plasticized chlorinated rubbers, sealants, paints, coatings, high temperature lubricants, and waxes. PCB's were also used as an ingredient in hydraulic fluids. Starting in 1970 these fluids were reformulated to eliminate the PCB's. Phase-out was completed by April, 1970.

Areas in which PCB's have been spilled can be easily cleaned by the use of absorbing material which is subsequently buried in an authorized landfill which is not located near a body of water. Solvents can be used for final cleanup. The contaminated solvent must then be incinerated at temperatures exceeding 800°C to assure complete breakdown of the PCB's. The resulting stack gases contain hydrogen chloride gas and must be scrubbed to prevent atmospheric pollution.

I am sending under separate cover samples of commercial polychlorinated biphenyls which can be used as laboratory standards.

I have enclosed a copy of a polychlorinated biphenyl methodology which is used by Monsanto laboratories.

I hope you find this information useful and if I can be of further service please let me know.

Sincerely,

W. B. Papageorge, Manager
Environmental Protection

WBP/bt
Enc.
cc: T. R. Brandes - Cincinnati

DSW 171534

500

STLCOPCB4046160

November 1, 1971

213-287-0926

Mr. Weiss
West Coast Technical Service
1049 South San Gabriel
San Gabriel, California 91776

Dear Mr. Weiss:

I am sending under separate cover the sample of polychlorinated biphenyl you requested.

If I can be of further service please let me know.

Sincerely,

W. B. Papageorge, Manager
Environmental Protection

WBP/bt

DSW 171535

49

STLCOPCB4046161

November 1, 1971

612 - 378-1320 Ext 84

Dr. Edward Pryzina
Minnesota Pollution Control Agency
717 Delaware Street, S.E.
Minneapolis, Minnesota 55440

Dear Dr. Pryzina,

Enclosed is a copy of the abstract of the paper presented in Washington, D.C. in March, 1971 on the chronic toxicity work performed for Monsanto.

I hope this information is useful to you and if I can be of further service please let me know.

Sincerely,

W. B. Papageorge, Manager
Environmental Protection

WBP/bt

Enc.

DSW 171536

498

STLCOPCB4046162

November 1, 1971

Mr. Joseph M. Solon
Applications Laboratory
Avondale Division
Hewlett Packard
Route 41
Avondale, Pennsylvania 19311

Dear Mr. Solon:

I am sending under separate cover samples of Aroclor 1254 and Aroclor 1260 as requested in your letter dated October 28.

Pure polychlorinated biphenyl isomers are not available. The practice which has been adapted by laboratories is to use the commercial material as a laboratory standard.

I have enclosed a copy of Monsanto's analytical methodology which I hope is useful to you.

If I can be of further service please let me know.

Sincerely,

W. B. Papageorge, Manager
Environmental Protection

WBP/bt

Enc.

DSW 171537

497

STLCOPCB4046163

November 1, 1971

Mr. Ralph L. Harper
Tab Chemicals, Inc.
4801 South Austin Avenue
Chicago, Illinois 60638

Dear Mr. Harper:

I am returning the General Mills, Inc. request form signed by me to attest to the lack of PCB in adipic acid.

If I can be of further service please let me know.

Sincerely,

W. B. Papageorge, Manager
Environmental Protection

WBP/bt

Enc.

DSW 171538

49

STLCOPCB4046164

November 1, 1971

Dr. Robert W. Harkins
Director, Scientific Affairs
Grocery Manufacturers of America, Inc.
1425 K Street, N.W.
Washington, D.C. 20005

Dear Dr. Harkins:

I am pleased to inform you that both Elmer Wheeler and I will be able to attend the breakfast meeting prior to the PCB Workshop on Wednesday, November 17.

I have attached a biographic outline which I hope is useful to you.

Elmer and I appreciate the opportunity to share our PCB experiences with you and look forward to an interesting and informative session.

Sincerely,

W. B. Papageorge, Manager
Environmental Protection

WBP/bt

Attachment

cc: Mr. E. P. Wheeler

DSW 171539

495

STLCOPCB4046165

November 1, 1971

Mr. W. M. Podas 612-224-4678
Economics Laboratories 612-224-4171
Osborne Building
St. Paul, Minnesota 55102

Dear Mr. Podas:

Enclosed is a copy of a polychlorinated biphenyl analytical methodology which I have offered to send.

I hope you find this information useful. If I can be of further service please let me know.

Sincerely,

W. B. Papageorge, Manager
Environmental Protection

WBP/bt

Enc.

cc: Mr. C. F. Callis

DSW 171540

4614

STLCOPCB4046166

November 4, 1971

Mr. P. Ronald Yust
Cimcool Laboratories
Products Division
Cincinnati Milacron Company
P. O. Box 9013
Cincinnati, Ohio 45209

Dear Mr. Yust:

Your letter addressed to Monsanto's Mr. D. R. Pogue was referred to me for response as I am deeply involved with problems relating our products to the environment.

Our product MCS1004 is a simple blend of monochlorobiphenyl and polychlorinated polyphenyls with no resultant chemical alteration taking place. The toxicological effect of the mixture is, therefore, related to the effects of the individual ingredients.

The two ingredients were tested as described in the regulations under the Federal Hazardous Substances Act (Federal Register, August 12, 1961). Results of the tests were as follows:

	Monochloro-biphenyl	Polychlorinated polyphenyl
Acute Oral LD_{50} - Rats Mixed Sex	2000 mg/Kg	8400 mg/Kg.
Acute Skin Absorption - Rabbits - Mixed Sex - Intact Skin - LD_{50}	5000 mg/Kg	10200 mg/Kg
Acute Skin Irritation - Rabbits - Mixed Sex - Intact Skin	Average Max. Score 3.8/8.0	Unable to remove from skin in 24 hrs. At 72 hrs. evidence of well defined erythema and moderate to severe edema of the skin at sight of contact.

DSW 171541

50

STLCOPCB4046167

	Monochloro-biphenyl	Polychlorinated polyphenyl
Acute Eye Irritation Rabbits - Mixed Sex	Average Max. Score 8.0/110.0	Average Maximum Score 0.0/110.0

Under the Hazardous Substances Act the product MCS 1004 would then be classified as practically non-toxic orally or by skin absorption and is not a primary skin or eye irritant.

I hope you find this information useful. If I can be of further service please let me know.

Sincerely,

W. B. Papageorge, Manager
Environmental Protection

WBP/bt

cc: Mr. D. R. Pogue
Mr. J. H. Davidson

DSW 171542

November 1, 1971

312-420-5679

Dr. D. Thompson
Plastics Division
Amoco Chemical Company
Naperville Technical Center
Naperville, Illinois 60540

Dear Dr. Thompson:

I am sending under separate cover samples of Aroclors to be used as laboratory standards on polychlorinated biphenyl determinations.

I have enclosed a copy of a polychlorinated biphenyl analytical methodology used with considerable success by Monsanto laboratories.

I hope you find this information useful. If I can be of further service please let me know.

Sincerely,

W. B. Papageorge, Manager
Environmental Protection

WBP/bt

Enc.

cc: Mr. M. Marshall -
Wilmington

DSW 171543

493

STLCOPCB4046169

November 1, 1971

Mr. W. Evans Howle
Purchasing Department
Sonoco Products Company
Hartsville, S. C. 29550

Dear Mr. Howle:

Attached is a copy of page 1 of "Analysis of Environmental Materials for Polychlorinated Biphenyls, Analytical Chemistry Method No. 71-35" requested in your letter dated October 22.

I regret the absence of this page in our previous mailing and I hope any inconvenience we may have caused was not serious.

If I can be of further service please let me know.

Sincerely,

W. B. Papageorge, Manager
Environmental Protection

WBP/bt

Attachment

cc: D. Randall - Atlanta

DSW 171544

493

STLCOPCB4046170

November 1, 1971

Dr. D. L. Bogaerts
Environmental Health Services Branch
Pesticides Advisory Committee
One St. Clair Avenue West
Toronto 195, Ontario
Canada

Dear Dr. Bogaerts:

I regret I do not have a prepared manuscript of the material I presented in Chicago to the Governor's Five-State Interdisciplinary Pesticide Council. The talk was an informal summary, made without notes, of the polychlorinated biphenyl problem as I understand it.

I have enclosed copies of articles relating to polychlorinated biphenyls. I hope this information is useful and would serve in lieu of a manuscript by me.

If I can be of further help please let me know.

Very truly yours,

W. B. Papageorge, Manager
Environmental Control

WBP/bt

Enc.

DSW 171545

491

STLCOPCB4046171

November 1, 1971

Mr. Charles Young
American Hoechst
Rhode Island Works
Coventry, Rhode Island

Dear Mr. Young:

I am sending under separage cover samples of polychlorinated biphenyls you requested from Mr. Phil Slayton.

I have enclosed a copy of a polychlorinated biphenyl analytical methodology which has been used with considerable success by Monsanto laboratories.

I hope you find this information useful and if I can be of further service please let me know.

Sincerely,

W. B. Papageorge, Manager
Environmental Protection

WBP/bt

Enc.

cc: Mr. P. L. Slayton - New York

DSW 171546

490

STLCOPCB4046172

November 1, 1971

Mr. L. J. Decorte
Sinclair-Koppers
Product Development
Frankfort Road
Monaca, Pennsylvania 19061

Dear Mr. Decorte:

I am sending under separate cover the samples of commercial polychlorinated biphenyls you requested for use as laboratory standards.

I have enclosed a copy of a polychlorinated biphenyl analytical procedure which is used by Monsanto laboratories. I hope you find this information useful.

If I can be of further service please let me know.

Sincerely,

W. B. Papageorge, Manager
Environmental Protection

WBP/bt

Enc.

DSW 171547

November 1, 1971

Mr. Ward Wells
Diamond National Corporation
407 Charles Street
Middleton, Ohio 45042

Dear Mr. Wells:

I am sending under separate cover a sample of Aroclor 1242 which you requested from Monsanto's Andy Rego for use as a laboratory reference sample.

I have enclosed a copy of a polychlorinated biphenyl analytical procedure which has been used with considerable success by Monsanto laboratories. I hope you find this information useful to you.

If I can be of further service please let me know.

Sincerely,

W. B. Papageorge, Manager
Environmental Protection

WBP/bt

Enc.

cc: A. J. Rego - Cincinnati

bcc: R. A. Garcia - Akron

DSW 171548

488

November 1, 1971

Dr. Herman J. Benezet
Department of Entomology
College of Agriculture and Life Sciences
University of Wisconsin
237 Russell Laboratories
1630 Linden Drive
Madison, Wisconsin 53706

Dear Dr. Benezet:

I am sending under separate cover the samples of polychlorinated biphenyls requested in your letter dated October 22.

I have enclosed copies of PCB literature which I hope you find useful.

I do not know of any laboratory which has radioactive labeled material to share. Perhaps you can contact the following laboratory for more information on labeled material.

Dr. David L. Stallings
Fish Pesticide Research Laboratory
Bureau of Sport Fisheries and Wildlife
U.S. Department of Interior
Route 1
Columbia, Missouri 65201
Phone: (314) 442-2271, ext. 3101

We are very interested in the possible degradability of polychlorinated biphenyls and hope you can share the results of your studies as they develop.

If I can be of further service please let me know.

Sincerely,

W. B. Papageorge, Manager
Environmental Protection

DSW 171549

WBP/bt
Enc.

487

November 1, 1971

Mr. Richard Prouty
Chemical Section
Patuxent Wildlife Research Center
Laurel, Maryland

Dear Mr. Prouty:

Enclosed is a copy of a polychlorinated biphenyl analytical methodology which you requested from Dr. G. L. Romoser.

This procedure has been used with considerable success by Monsanto laboratories. I hope you find it useful for your needs.

If I can be of further service please let me know.

Sincerely,

W. B. Papageorge, Manager
Environmental Protection

WBP/bt

Enc.

DSW 171550

486

STLCOPCB4046176

OCTOBER

DSW 171551

W. B. Papageorge - General Offices - B2NK

October 29, 1971

POLYCHLORINATED BIPHENYLS

C. Paton
J. H. Hess - 5020
G. R. Loder - Perth
A. J. Mulligan - 5030

R. F. Garnsworthy - 5020
Princes Gate - Melbourne

Our attitude in responding to requests from laboratories seeking samples and methodology is one of openness and cooperation.

I recommend that samples of commercially available polychlorinated biphenyl products (e.g. the Aroclors) be provided upon request. Formulations containing polychlorinated biphenyls as one of many ingredients (e.g. Inerteens, Pyranols) should not be submitted for laboratory standards except in those situations involving these products specifically.

I have enclosed a copy of the latest revision of a polychlorinated biphenyl analytical methodology which we have used successfully in our Monsanto laboratories. You may reproduce and share this information with anyone.

If I can be of further help please let me know.

W. B. Papageorge

WBP/er

Enclosure

DSW 171552

485

STLCOPCB4046178

October 29, 1971

Mr. S. C. Woodger
Group Leader-Analytical
Research Centre
Domtar Limited
Trans-Canada Highway, Sortie 11A
P. O. Box 300
Senneville, Quebec
Canada

Dear Mr. Woodger:

I am sending under separate cover a sample of Aroclor 1242 as requested in your letter dated October 22. This material is typical of the polychlorinated biphenyl most likely to be detected in paper products. There is no charge for this sample.

I am enclosing a copy of a polychlorinated biphenyl analytical methodology used with considerable success by Monsanto laboratories.

I hope you find this information useful and if I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

Enclosure

bdc: D. Goodwillie - 5090

DSW 171553

484

STLCOPCB4046179

October 28, 1971

305-443-2357

Dr. Eugene Birmingham
Deltec International Ltd.
2801 Ponce D'Leon
Coral Gables, Florida 33134

Dear Dr. Birmingham:

I am sending under separate cover the samples of Aroclor 1242 you requested.

If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

DSW 171554

STLCOPCB4046180

October 28, 1971

704 - 758 - 5151

Mr. John Hendee
Cellu-Products Company
Patterson, North Carolina 28661

Dear Mr. Hendee:

Commercial laboratories which in our opinion have successfully made polychlorinated biphenyls determinations include the following:

Woodson-Tenent Laboratories
345 Adams Avenue
P. O. Box 2135
Memphis, Tennessee 38102
Attention: Mr. J. Laubscher

Battelle Memorial Institute
Columbus Laboratories
505 King Avenue
Columbus, Ohio 43201
Attention: Mr. G. W. Kinzer

Monsanto Research Corporation
Dayton Laboratory
1515 Nicholas Road
Dayton, Ohio 45407
Attention: Dr. A. D. Snyder

WARF Institute, Inc.
(Wisconsin Alumni Research Foundation Institute)
P. O. Box 2037
Madison, Wisconsin 53701
Attention: Dr. Francis Coon

Analytical Bio-Chemistry Laboratories, Inc.
Interstate 70 East
P. O. Box 1097
Columbia, Missouri 65201
Attention: Mr. James P. Ussuary

DSW 171555

48

I hope this information is useful to you. If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

cc: W. S. Clark - B3NE

bcc: R. E. Keller - 1760
E. S. Tucker - 1760

DSW 171556

October 26, 1971

Mr. K. Mason
Chrometography Associates, Inc.
P. O. No. 428
New Castle, Delaware 19720

Dear Mr. Mason:

I am sending under separate cover a sample of Aroclor 1254 as requested in your letter dated September 30.

I regret I could not include a sample of Aroclor 1232 because this product is no longer manufactured and our supply of samples has been exhausted.

Since these materials may cause environmental problems Monsanto has severely restricted sales to use in transformers, capacitors and non-food related heat transfer systems. Because of this marketing policy none of these Aroclors would be available to you.

I hope the lack of material does not seriously inconvenience you. If any of your customers desire standards for PCB analyses you may refer them to Monsanto for small samples of available material at no charge.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

bcc: M. Marshall - 1940

DSW 171557

481

STLCOPCB4046183

October 26, 1971

Mr. Henry E. Cooper
Terrell Corporation
820 Woburn Street
Wilmington, Massachusetts 01887

Dear Mr. Cooper:

Enclosed are copies of articles regarding polychlorinated biphenyls which I offered to send.

I hope you find this information useful. If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

Enclosures

cc: Mr. J. S. Pullman

DSW 171558

479

STLCOPCB4046184

October 26, 1971

319-362-3121 Ex 326

Mr. Robert Kucera
Quaker Oats Company
100 Second Street NE
Cedar Rapids, Iowa 52401

Dear Mr. Kucera:

Enclosed are copies of information on polychlorinated biphenyls which I offered to mail to you.

Confirming our discussion regarding the disposal of scrap liquids containing polychlorinated biphenyls Monsanto does offer a disposal service. Returned material is incinerated at extremely high temperatures to assure complete destruction. Cost of this service is 3 cents per pound received. Freight is paid by the shipper and the material should be sent to: Monsanto Company, Sauget, Illinois 62201 - Attention: Supervisor Department 246.

I hope this information is useful to you. If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

DSW 171559

47

STLCOPCB4046185

W. B. Papageorge - General Offices - B2NK

October 26, 1971

SWEDISH BAN ON PENTACHLOROPHENOL AND DERIVATIVES

H. S. Bergen - B2SA
H. N. Dahlstrom - 5040
J. T. Garrett - B2SA
P. J. A. Marsh - 5040
W. R. Richard - T3A

R. A. Baxter - 5470

Your suggestion that Dr. Junghahnel of Dynamit Nobel and you visit Sweden as soon as possible and present to the appropriate authorities the latest available information on the degradation of pentachlorophenol and its derivatives has considerable merit and I recommend you proceed with your plans.

Jack Garrett assures me that you are now in possession of all the available information we have from the Purdue University studies and you have Dr. Kirsch's permission to use it freely in your discussions.

Jack also informed me that Progil has recently become one of the co-sponsors of the Purdue study.

W. B. Papageorge

WBP/er

DSW 171560

477

STLCOPCB4046186

October 26, 1971

Mr. Louis Pappas
Inmont Corporation
1133 Avenue of the Americas
New York, New York 10036

Dear Mr. Pappas:

Confirming our telephone discussion Monsanto's polychlorinated biphenyls marketed under the trademark "Aroclor" have not been sold to the open system, chemical type use since August 30, 1970.

Some select mixtures of polychlorinated biphenyls are still being manufactured and sold only for use in electrical transformers, electrical capacitors and existing closed high temperature heat transfer systems where fire resistance is critical and no food is involved either directly or indirectly.

Sales to these users are made only after a thorough screening has been made regarding the end use to avoid misapplication.

I hope this information is useful to you. If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

DSW 171561

476

STLCOPCB4046187

October 26, 1971

Dr. Jeffrey L. Lincer
Division of Biological Sciences
Cornell University
Building 6, Langmuir Laboratory
Ithaca, New York 14850

Dear Dr. Lincer:

I regret I do not have a paper prepared on the subject of PCB's. The talks which I have given to many groups are very informal, given without notes, and represent my personal experiences, knowledge and opinions on the PCB problem.

The basic information which I cover is very likely well known by you and is easily found in such references as the Encyclopedia of Chemical Technology.

I hope the lack of a formal paper does not seriously inconvenience you. If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

DSW 171562

475

STLCOPCB4046188

October 26, 1971

302 - 674-2020 Ext 311

Mr. Ben Sanders
Quality Control Department
Jello Division
General Foods Company
West North Street
Dover, Delaware 19901

Dear Mr. Sanders:

I am sending under separate cover samples of Aroclor 1242, Aroclor 1254 and Aroclor 1260 for use as laboratory standards.

I have enclosed a copy of a polychlorinated biphenyl analytical methodology which is used with considerable success by Monsanto laboratories.

I hope you find this information useful. If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

cc: Mr. M. Marshall

DSW 171563

474

STLCOPCB4046189

October 26, 1971

Dr. R. Q. Parks
Chem-Power
15 Wing Drive
Cedar Knolls, New Jersey 07927

Dear Dr. Parks:

Enclosed is the infommation I offered to send you describing plasticizers which may be applicable to your high temperature lubricant.

If you desire samples of the material that appears to have the properties you are seeking please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

Enclosures

DSW 171564

473

STLCOPCB4046190

October 26, 1971

301-531-5711

Mr. J. LeFever
W. R. Grace Company
Washington Research Center
Clarksville, Maryland 21029

Dear Mr. LeFever:

As we discussed over the telephone Monsanto has restricted the marketing of polychlorinated biphenyl materials to transformers, capacitors and existing heat transfer systems which are not directly or indirectly related to food uses.

Because of these restrictions I recommend that your company consider alternative environmentally acceptable materials. To assist in this selection I have enclosed copies of information on heat transfer fluids and other Aroclor plasticizers.

I hope you find this information useful. If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

Enclosures

DSW 171565

+ 7c

STLCOPCB4046191

October 26, 1971

Dr. Jack L. Fry
Poultry Science Department
Institute of Food & Agricultural Sciences
University of Florida
Archer Road
Gainesville, Florida 32601

Dear Dr. Fry:

I regret I do not have a copy of the presentation I gave at the Pountry and Egg Institute Research Council Meeting. The talk is very informal, given without notes and represents my personal knowledge and thoughts on the PCB problem.

I have enclosed copies of articles relating to PCB's which I hope you find useful.

If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

Enclosures

DSW 171566

471

STLCOPCB4046192

October 26, 1971

Dr. J. K. Bletner
Poultry Department
The University of Tennessee
P. O. Box 1071
Knoxville, Tennessee 37901

Dear Dr. Bletner:

Enclosed is the polychlorinated biphenyl information I offered to send you.

If after you have had an opportunity to review it, you still need further information please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

Enclosures

cc: Dr. G. L. Romoser

DSW 171567

STLCOPCB4046193

October 26, 1971

Mr. D. L. Cook
W. L. Clayton Research Center
Anderson Clayton Foods
3333 North Central Expressway
Richardson, Texas 75080

Dear Mr. Cook:

I am sending under separate cover the Aroclor samples requested in Mr. M. L. Craig's letter dated September 30.

I have enclosed a copy of a polychlorinated biphenyl analytical methodology and a technical bulletin describing the physical and chemical properties of Monsanto's Aroclors.

I hope you find this information useful. If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

Enclosures

bcc: Mr. W. G. Morlock - 1460

DSW 171568

468

STLCOPCB4046194

October 26, 1971

517-373-0927

Mr. John Robinson
Michigan Water Resources Commission
Mason Building
Lansing, Michigan 48926

Dear Mr. Robinson:

Enclosed are copies of letters to customers, statements, and press releases issued by Monsanto relating to the polychlorinated biphenyl problem.

I hope this information is useful to you. If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

Enclosures

DSW 171569

467

STLCOPCB4046195

October 25, 1971

Dr. E. G. Daskalakis, Director
Rosner-Hixson Laboratories
7737 South Chicago Avenue
Chicago, Illinois 60619

Dear Dr. Daskalakis:

I am sending under separate cover samples of Aroclor 1242, Aroclor 1254 and Aroclor 1260 as requested in your letter dated October 15.

I regret I could not include a sample of Aroclor 1248 since it is no longer manufactured and our supply of samples has been depleted. Aroclor 1252 has never been manufactured and I substituted Aroclor 1254.

If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

DSW 171570

46

STLCOPCB4046196

October 25, 1971

Mr. Nilufer I. Woods
Central Research Laboratories
The Mead Corporation
Chillicothe, Ohio 45601

Dear Mr. Woods:

I am sending under separate cover samples of Aroclor 1242, Aroclor 1254 and Aroclor 1260 for laboratory standards as requested in your letter dated October 12, to Monsanto's Mr. Jack Garrett.

I regret I could not include a sample of Aroclor 1248 since it is no longer manufactured and our inventory of samples is exhausted. I hope the lack of this sample does not seriously inconvenience you.

If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

cc: Mr. J. T. Garrett

DSW 171571

465

STLCOPCB4046197

W. B. Papageorge - General Offices - B2NK

October 25, 1971

NEWS RELEASE
SANTICIZER 334F

P. R. Graham - B3ND
R. E. Kelly - A2SA
D. E. Merriner - B2SL
J. E. Maurer - B1SA
J. E. Springgate - B2SA

E. V. John - C2SE

I have no suggestions to offer regarding the proposed news release on Santicizer 334F. I recommend we release as is.

W. B. Papageorge

WBP/er

DSW 171572

46

STLCOPCB4046198

October 25, 1971

815-436-2100

Mr. William Daggs
Director, Quality Control
Fleischmann Distilling Corporation
Plainfield, Illinois 60544

Dear Mr. Daggs:

I am enclosing a copy of a polychlorinated biphenyl analytical methodology which Monsanto's Mr. D. R. Pogue requested for you.

I hope you find this information useful to you. If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

Enclosure

bcc: D. R. Pogue - B2SJ

DSW 171573

46

STLCOPCB4046199

October 25, 1971

Mrs. Mary Alice Snook
Polyastics Corporation
203-205 State Road
Croydon, Pennsylvania 19020

Dear Mrs. Snook:

Your letter dated October 18, was forwarded to me for response.

Of the many Aroclors listed only Aroclor 5460 is available for use in protective coatings. The other Aroclors are no longer sold for coating applications because they cause environmental contamination problems.

I have enclosed a bulletin and price list for the currently available Aroclors. I hope you find this information useful.

If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

Enclosures

DSW 171574

46

STLCOPCB4046200

October 25, 1971

Mr. Robert Manning
Glidden-Durkee
Dwight P. Joyce Reserach Center
16651 Sprague Road
Strongsville, Ohio 44136

Dear Mr. Manning:

I am sending under separate cover samples of Aroclor 1242, Aroclor 1254, Aroclor 1260, Aroclor 5442, and Aroclor 5460 as requested in your Lab Request No. 486 dated October 12.

I regret I cannot send you the other Aroclors listed since they are no longer manufactured and the supply of samples has been depleted.

I hope the lack of these materials does not seriously inconvenience you.

If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

DSW 171575

459

STLCOPCB4046201

October 25, 1971'

Mr. Joseph J. Feustel
Peter Paul, Inc.
Naugatuck, Connecticut 06771

Dear Mr. Feustel:

I am sending under separate cover a sample of Aroclor 1242 as ordered on your purchase order No. 3770 dated October 18. There is no charge for this sample.

If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

DSW 171576

461

STLCOPCB4046202

.October 25, 1971

Mr. H. Stephen Nye
Ten Ech, Environmental Consultants
52580 Dixie Way North
South Bend, Indiana 46637

Dear Mr. Nye:

I am sending under separate cover samples of Aroclor 1242, Aroclor 1254 and Aroclor 1260 as requested in your letter dated October 22. There is no charge for these samples.

I am enclosing a copy of a polychlorinated biphenyl analytical procedure used with considerable success by Monsanto laboratories.

I hope you find this information useful. If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

Enclosure

DSW 171577

460

STLCOPCB4046203

October 25, 1971

312-437-7800 Ext 291

Mr. Thomas Pallukat
Chemplex Company
3100 Golf Road
Rolling Meadows, Illinois 60008

Dear Mr. Pallukat:

Enclosed is a copy of a polychlorinated biphenyl analytical methodology which Monsanto's Mr. W. Clark promised to send you.

I hope you find this information useful. If I can be of further service please let me know.

Sincerely,

W. B. Papageroge
Manager
Environmental Protection

WBP/er

Enclosure

DSW 171578

458

STLCOPCB4046204

October 25, 1971

Mr. Gene Swinford
Technical Director
Richardson Ink Company
7777 North Merrimac Avenue
Niles, Illinois 60648

Dear Mr. Swinford:

Responding to your request in your letter dated September 28, I have reviewed our records thoroughly and I am pleased to inform you that the materials purchased currently from Monsanto by your company do not contain polychlorinated biphenyls.

If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

bcc: L. J. Berlik - 1180
W. S. Clark - B3NE

DSW 171579

451

STLCOPCB4046205

October 25, 1971

Mr. Charles A. Badder
Civic Affairs
The Dow Chemical Company
Midland, Michigan 48640

Dear Charles:

Paul Graham and I found the PCB-PVC discussions interesting and informative and we hope that our contributions were helpful.

We sincerely appreciated your hospitality and look forward to the opportunity to reciprocate when you can schedule a trip to St. Louis.

If we can be of further service please let us know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

cc: P. R. Graham

DSW 171580

4 47

STLCOPCB4046206

October 22, 1971

Mr. David Lewis
Weyerhauser Company
3400 13th Avenue SW
Seattle, Washington 98134

Dear Mr. Lewis:

I am sending under separate cover the sample of Aroclor 1260 you requested.

If I can help further, let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

DSW 171581

45

STLCOPCB4046207

October 25, 1971

Mr. K. R. Linn
Chief Chemist
General Laboratory
Chase Bag Company
Chagrin Falls, Ohio 44022

Dear Mr. Linn:

Your letter dated October 11 and addressed to Monsanto's Dr. W. H. Hunt was forwarded to me for response.

The Mersize RH sold to your Chagrin Falls, Ohio paper mill does not contain polychlornated biphenyls. The FDA status of this material has not changed and there are no recent revisions.

I hope this information is useful to you. If I can be of further service please let me know.

Sincerely,

W. B. Papageorgo
Manager
Environmental Protection

WBP/er

cc: Dr. W. H. Hunt

- A2NA

bcc: B. G. Tibbetts - B2SE

DSW 171582

45

STLCOPCB4046208

October 25, 1971

Mrs. M. A. Grabner
Ore-Ida Foods, Inc.
P. O. Box 10
Ontario, Oregon 97914

Dear Mrs. Grabner:

I am sending under separate cover the samples of Aroclors you requested in your letter dated October 14. There is no charge for these samples.

I have enclosed a copy of a polychlorinated biphenyl analytical methodology used with considerable success by Monsanto laboratories.

I hope you find this information useful. If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

Enclosure

bcc: A/ W. Hempelmann - 1890

DSW 171583

453

STLCOPCB4046209

October 25, 1971

Mr. R. Glazer
Department of Natural Resources
State of Minnesota
Division of Fish and Game
390 Centennial Building
St. Paul, Minnesota 55101

Dear Mr. Glazer:

I am sending under separate cover samples of Aroclor 1254 and Aroclor 1260 you requested.

If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

DSW 171584

45

STLCOPCB4046210

October 25, 1971

201- 792-2400

Mr. M. Schmutzer
U.S. Testing Company, Inc.
1415 Park Avenue
Hoboken, New Jersey 07030

Dear Mr. Schmutzer:

I am sending under separate cover the samples of Aroclors you requested.

I am enclosing a copy of a polychlorinated biphenyl analytical methodology used by Monsanto laboratories.

I hope you find this information useful. If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

Enclosure

DSW 171585

STLCOPCB4046211

October 25, 1971

Mr. Ralph M. Morgan
West Experiment Station
College of Agriculture
University of Massachusetts
Amherst, Massachusetts 01002

Dear Mr. Morgan:

I am sending under separate cover the samples of polychlorinated biphenyls requested in your letter dated October 18. There is no charge for these samples.

If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

DSW 171586

45C

STLCOPCB4046212

October 25, 1971

Mr. Ray Odum
The Coca-Cola Company
310 North Avenue
P. O. Drawer 1734
Atlanta, Georgia 30301

Dear Mr. Odum:

I am sending under separate cover the samples of Aroclors you requested in your letter.

If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

DSW 171587

4.4

STLCOPCB4046213

October 22, 1971

Mr. Fred H. Haney
Technical Director
Rlintkote Research Laboratory
P. O. Box 2218 Terminal Annex
Los Angeles, California 90054

Dear Mr. Haney:

With regard to your letter of October 15, we are enclosing page 1 of our Method 71-35, which we had previously sent you.

We are sorry that this page was inadvertently left out of this package.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

Enclosure

DSW 171588

44

STLCOPCB4046214

October 19, 1971

Mr. Dennis Brengartner
Pollution Analysis Laboratory
Owen-Illinois, Inc.
P. O. Box 1035
Toledo, Ohio 43651

Dear Mr. Brengartner:

I am sending under separate cover samples of Aroclor 1242 and Aroclor 1254 for use as laboratory standards.

I am enclosing a copy of a polychlorinated biphenyl analytical methodology used by Monsanto laboratories with considerable success.

I hope you find this information useful. If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

Enclosure

DSW 171589

44

STLCOPCB4046215

Monsanto

OUTGOING MESSAGE BLANK
Telecommunications System

DATE 10/18/71 | TIME 11:10am | SENDER'S ACCOUNT NO. 2-00-735.70

INDICATE DESIRED SERVICE → ☐ FULL RATE ☐ DAY LETTER ☐ NIGHT LETTER

Names of addressee and sender must include initials. Show complete address for telegrams and cables.

D. L. Mellon
Everett Plant

Oral LD-50 for rats on Monoisopropyl Biphenyl/MIPB/ is 5000 MG/KG.

W. B. Papageorge
St. Louis

DSW 171590

446

STLCOPCB4046216

October 18, 1971

Dr. W. B. Cashion
Group Leader
Research and Development
RJR Archer, Inc.
220 East Polo Road
Winston-Salem, North Carolina 27102

Dear Dr. Cashion:

Responding to your letter dated October 8, to Mr. W. E. Schalk, I am sending under separate cover a sample of Aroclor 1242 for use as a laboratory standard in the determination of polychlorinated biphenyls.

I am enclosing a copy of analytical methodology which can be easily adapted to paper and other packaging materials.

I hope you find this information useful. If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

Enclosure

DSW 171591

445

STLCOPCB4046217

October 18, 1971

Mr. J. S. Carpenter
Purchasing Agent
Film Division
Olin Corporation
Pisgah Forest, North Carolina 28768

Dear Mr. Carpenter:

I am sending under separate cover samples of Aroclor 1242, Aroclor 1254, Aroclor 1260, Aroclor 5442 and Aroclor 5460 you requested in your letter dated October 12.

I regret I could not send samples of the other Aroclors you requested. These materials are no longer manufactured and the limited supply of samples has been depleted.

I have enclosed copies of articles describing the characteristics and handling of the Aroclors.

I hope you find this information useful and that the lack of some of the material does not seriously inconvenience you.

If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

Enclosures

DSW 171592

4/4/L

STLCOPCB4046218

October 18, 1971

Dr. A. Wolkoff
Department of Chemical Engineering and Applied Chemistry
University of Toronto
Toronto 5, Ontario
Canada

Dear Dr. Wolkoff:

I am sending under separate cover samples of Aroclor 1242, Aroclor 1254, Aroclor 1260, Aroclor 5442 and Aroclor 5460 you requested in your letter dated October 5.

I regret I could not send the other Aroclors you requested. These materials have not been produced during the past year or so and our supply of samples has been depleted.

The bulletins you requested are no longer in print but I have enclosed a copy of Technical Bulletin O/PL-306A which contains the chemical and physical property information which appeared in the older bulletins.

I hope you find this information useful and that the lack of some of the Aroclors does not seriously inconvenience you. If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

Enclosure

DSW 171593

443

STLCOPCB4046219

October 18, 1971

Dr. Albert Kolbye 202-962-1431
Deputy Director, Bureau of Foods
Food and Drug Administration
330 Independence Avenue SW
Washington DC 20201

Dear Dr. Kolbye:

I reviewed the applications in which polychlorinated biphenyls, marketed by Monsanto as Aroclors, were used and to the best of my knowledge they are/were as follows:

Current Uses

Electrical Capacitors	Aroclor 1016*, Aroclor 1221, Aroclor 1254
Electrical Transformers	Aroclor 1242, Aroclor 1254, Aroclor 1260
Heat Transfer Systems	Aroclor 1242
Vacuum Pumps	Aroclor 1248, Aroclor 1254
Gas Transmission Turbines	Aroclor 1221, Aroclor 1242

(*) Similar to Aroclor 1242 with 5 chlorine and higher isomers removed.

Former Uses

Electrical Capacitors	Aroclor 1242, Aroclor 1254
Electrical Transformers	Aroclor 1242, Aroclor 1254, Aroclor 1260
Heat Transfer Systems	Aroclor 1242, Aroclor 1248, Aroclor 1254

DSW 171594

STLCOPCB4046220

Vacuum Pumps	Aroclor 1248, Aroclor 1254
Gas Transmission Turbines	Aroclor 1232, Aroclor 1242
Hydraulic Fluids	Aroclor 1232, Aroclor 1242, Aroclor 1248, Aroclor 1254, Aroclor 1260
Plasticizer in Synthetic Resins	Aroclor 1248, Aroclor 1254, Aroclor 1260, Aroclor 1262, Aroclor 1268
Adhesives	Aroclor 1221, Aroclor 1232, Aroclor 1242, Aroclor 1248, Aroclor 1254
Surface Coatings	Aroclor 1221, Aroclor 1248, Aroclor 1254, Aroclor 1260, Aroclor 1262
Plasticizer in Rubbers	Aroclor 1221, Aroclor 1232, Aroclor 1242, Aroclor 1248, Aroclor 1254, Aroclor 1260
Wax Extenders	Aroclor 1242, Aroclor 1254, Aroclor 1268
Dedusting Agents	Aroclor 1254, Aroclor 1260
Pesticide Extenders	Aroclor 1254
Lubricants, Cutting Oils	Aroclor 1254
Carbonless Reproducing Paper	Aroclor 1242
Inks	Aroclor 1254

I regret I could not send you complete detail information on customers and their product names. I hope you understand and appreciate the complex business relationships that are involved in obtaining and divulging this kind of information.

DSW 171595

I hope this information is useful to you. If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

DSW 171596

October 15, 1971

Mr. Roger B. Carr
The Dow Chemical Company
P. O. Box664177
Cleveland, Ohio 44101

Dear Mr. Carr:

Enclosed is a copy of a polychlorinated biphenyl analytical methodology used by Monsanto laboratories with considerable success.

I hope you find this information useful. If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

Enclosure

DSW 171597

44

STLCOPCB4046223

October 15, 1971

Mr. Christian Walmer
Hershey Chocolate and Confectionery Division
Hershey Foods Corporation
Hershey, Pennsylvania 17033

Dear Mr. Walmer:

I am sending under separate cover samples of polychlorinated terphenyls Aroclor 5442 and Aroclor 5460 requested in your letter dated October 8.

I regret I could not include Aroclor 1248, Aroclor 1262 and Aroclor 4465. These materials have not been produced for many months and our supply of samples have been depleted. I hope the lack of these materials does not seriously inconvenience you.

If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

DSW 171598

44C

STLCOPCB4046224

October 15, 1971

Mr. C. B. Coulson
Project Manager
POL/10 Pesticides Project
Pensjonat Zgoda, Ezpitalna 1
Warsaw, Poland

Re: Field Purchase Order
No. FPO/SF/AGP/P04545/
5-45198

Dear Mr. Coulson:

I am sending to Dr. K. Piekarczyk samples of the Aroclors you requested on the reference purchase order.

There is no charge for these sample.

If I can be of further service please let me know.

Sincerely

W. B. Papageorge
Manager
Environmental Protection

WBP/er

DSW 171599

October 15, 1971

Mr. Michael Stein
The Science Center
7701 22nd Avenue North
St. Petersburg, Florida 33710

Dear Mr. Stein:

I am sending under separate cover a sample of Aroclor 1242. This material is a typical commercial mixture as requested in your letter dated October 9. There is no charge for this sample.

Proper disposal of the excess material can be achieved by incineration at temperatures exceeding 800°C. If an appropriate incinerator is not available burial in a properly operated landfill not located near any water can be considered.

I hope this information is useful to you. If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

DSW 171600

438

STLCOPCB4046226

October 14, 1971

Dr. Daniel S. Dixler
Keller-Heckman
1150 Seventeenth Street N.W.
Washington, D.C. 20036

Dear Dr. Dixler:

Enclosed is a copy of the polychlorinated biphenyl methodology I offered to send.

If I can be of further service, please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

er

Enclosure

DSW 171601

43

STLCOPCB4046227

October 14, 1971

Dr. David Gaskill
Research and Development Laboratories
Mobil Chemical Corporation
P.O. Box 240
Edison, New Jersey 08817

Dear Dr. Gaskill:

Responding to Dr. Daniel Dixler's request, I have enclosed a copy of a polychlorinated biphenyl analytical methodology used by Monsanto laboratories with considerable success.

I hope you find this information useful. If I can be of further help, please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

er

Enclosure

cc: Dr. Daniel S. Dixler
Keller-Heckman
1150 Seventeenth Street N.W.
Washington, D.C. 20036

DSW 171602

October 14, 1971

Mr. Wilfred Eder
Brown Company
Burgess Mill
Main Street
Berlin, New Hampshire 03570

Dear Mr. Eder:

Enclosed is a copy of a polychlorinated biphenyl analytical methodology which Phil Slayton offered to send you.

Although the method does not specifically mention pulp or paper, the procedure can be easily adapted.

If you decide to proceed with an analysis program, you will probably need some material to serve as a laboratory standard. I will gladly forward any samples you need.

If I can be of further service, please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

er

Enclosure

cc: Mr. Phil Slayton - N.Y.

DSW 171603

STLCOPCB4046229

W. B. Papageorge - General Offices

October 14, 1971

A. E. Leisy
D. Pogue

Bob McCutchan
W. G. Krummrich

Dr. Charles Cumpstom, DuPont Experimental Station, Wilmington, Delaware, is sending 4 drums of scrap Aroclors for disposal under DuPont's order LOX-19831.

Please arrange to have the invoice for disposal sent to:

DuPont Company
Experiment Station
Wilmington, Delaware 19898

Attention: Dr. Charles Cumpstom

Dr. Cumpstom also asked that we mail twenty-four (24) additional scrap Aroclor labels (1068153) to the following address:

DuPont Company
Experiment Station
Wilmington, Delaware 19898

Attention: Dr. John C. Gebhard.

Thanks for your cooperation.

W. B. Papageorge

er

DSW 171604

433

STLCOPCB4046230

W. B. Papageorge - General Offices - B2NK

October 13, 1971

H. S. Bergen - B2SA
W. R. Corey - A2NA
D. Danna - B2NA
J. R. Durland - Tokyo
H. A. Hashbarger - B3NJ
J. Mason - B2SA
K. Murakami - Tokyo

Messrs.

T. Katayama
S. Uneno

I propose the following agenda for PCB discussions scheduled for October 18 and 19:

Monday October 18 - General Offices

9:00 AM - 12:00 N	PCB Marketing Policy and Status	T. L. Gossage C. Paton
1:00 PM - 3:00 PM	Status PCB Environmental Problem	W. B. Papageorge
3:00 PM - 4:00 PM	Toxicity Studies	E. P. Wheeler
4:00 PM - 5:00 PM	Pending Projects	R. M. Kountz

Tuesday October 19 -

9:00 AM - 12:00 N	Research Conference Room 160 South Second Street	
	Analytical Methodology Biodegradation Studies Alternative Products	W. R. Richard R. E. Keller R. H. Munch E. S. Tucker C. Paton P. B. Benignus
1:00 PM - 4:00 PM	W. G. Krummrich Plant	
	Plant PCB Pollution Control Incinerator	A. E. Leisy B. McCutchan T. Rasmussen

DSW 171605

432

The agenda as outlined can be modified if additional subjects of interest are desired. Individuals receiving carbon copies of this agenda are invited to attend the discussions in addition to the participants listed.

W. B. Papageorge

WBP/er

DSW 171606

October 13, 1971

215-829-7974

Dr. Anthony J. Triolo
Jefferson Medical College
Department of Pharmacology
1020 Locust Street
Philadelphia, Pennsylvania 19107

Dear Dr. Triolo:

I am sending under separate cover samples of Aroclor 1242, Aroclor 1254 and Aroclor 1260. I regret I could not send you the pure isomers which you requested. Our limited supply was exhausted several months ago.

I do not know of any laboratory which has a supply of isomers which it is willing toshare. The following laboratories have been working with PCB isomers for the past year or so and may be able to help:

Dr. O. Hutzinger
National Research Council
Atlantic Regional Laboratory
1411 Oxford Street
Halifax, N.S. Canada

Dr. Ronald G. Webb
Environmental Protection Agency
Southeast Water Laboratory
Athens, Georgia 30601

Dr. David C. Stallings
Fish-Pesticide Research Laboratory
Bureau of Sport Fisheries and Wildlife
U.S. Department of Interior
Route 1
Columbia, Missouri 65201

DSW 171607

431

STLCOPCB4046233

I have enclosed copies of information on polychlorinated biphenyls. Papers by Drs. Hutzinger, Stallings and Webb are included.

I hope you find this information useful. If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

Enclosures

DSW 171608

October 13, 1971

Mr. Fred Haney
Flintkote Company
P. O. Box 2218 - Terminal Annex
Los Angeles, California 90054

Dear Mr. Haney:

I am sending under separate cover a sample of Aroclor 1242 for use by your laboratory as a polychlorinated biphenyl standard.

I am enclosing a copy of polychlorinated biphenyl methodology used by Monsanto laboratories with considerable success. Although pulp or paper samples are not mentioned specifically the procedure can be easily adapted to your needs.

I hope you find this information useful. If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

Enclosure

cc: Alma Waian - Los Angeles

DSW 171609

430

STLCOPCB4046235

W. B. Papageorge - General Offices - B2NK

October 13, 1971

FOOD GRADE MURIATIC ACID

Memo by PRP dated 10/7/71

P. R. Parker - 1290

C. R. Groninger - B2SL
W. K. Johnson - B2SA
E. P. Wheeler - A2NA
P. B. Hodges - B2NA
E. M. Potter
H. C. Carder - B2NA
T. W. Dalton - 1740
J. P. Roarty - 1290
J. J. Juliano - 1290

I have three comments to offer in response to your memo summarizing the information available on Food Grade Muriatic Acid:

1. No mention is made specifically of Mercury. You state on page 5 that other metallic elements were not present at 1 ppm or greater. I believe we should be interested in Mercury at levels below 1 ppm.

2. We should assure ourselves that the ingredients in Petrolite's Kontol-KI 24 are acceptable.

3. Rohm & Haas' recommendations for pretreatment should be followed.

W. B. Papageorge

WBP/er

DSW 171610

429

STLCOPCB4046236

October 13, 1971

Dr. John L. Hessee
Water Quality Appraisal Section
Water Resources Commission
Department of Natural Resources
State of Michigan
Stevens T. Mason Building
Lansing, Michigan 48926

Dear Dr. Hessee:

As discussed on the telephone Monsanto's Technical Bulletin O/PL-306 has been out of print for several years and therefore not available. It was replaced by Technical Bulletin O/PL-306A which contains the chemical and physical properties which appeared in the old bulletin. I have enclosed a copy for your use.

To help in determining the types of applications in which PCB's were used I have enclosed a copy of the PCB article in the Encyclopedia of Chemical Technology.

I hope you find this information useful. If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

Enclosures

DSW 171611

428

STLCOPCB4046237

October 13, 1971

Mr. Gerald Brezner
Pure Waters Program
Department of Environmental Conservation
State of New York
50 Wolfe Road
Albany, New York 12201

Dear Mr. Brezner:

Mr. Jerry Wilkenfeld, Hooker Chemical Company, has informed us of your interest in polychlorinated biphenyls (PCB's).

I have enclosed copies of information regarding PCB's which I hope you find useful.

If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

Enclosures

cc: Mr. Jerry Wilkenfeld
Hooker Chemical Company
Hooker Building
1515 Summer Street
Stamford, Connecticut 06905

DSW 171612

427

STLCOPCB4046238

October 13, 1971

Mr. Lou Ferrara
International Minerals and Chemical Corporation
Route 45 and Winchester Road
Libertyville, Illinois 60048

Dear Mr. Ferrara:

I am sending under separate cover a sample of Aroclor 1242 for use as a laboratory standard in the determination of polychlorinated biphenyls.

If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

DSW 171613

426

STLCOPCB4046239

October 13, 1971

616 - 968 - 6121
Home - 616 - 963 - 0478

Mr. Charles M. Woodcock
Post Division
General Foods Company
275 Cliff Street
Battle Creek, Michigan 49016

Dear Mr. Woodcock:

I am forwarding under separate cover a sample of Aroclor 1242 which I offered to send.

I am very interested in your proposed study of PCB migration from packaging material to food contents and I hope you are able to share with us the results of your study as they develop.

If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

DSW 171614

425

October 12, 1971

Mr. J. D. Furrer
Extension Agronomist
Cooperative Extension Service
University of Nebraska
East Campus
Lincoln, Nebraska 68503

Dear Mr. Furrer:

I regret I cannot share the Industrial Bio-test Laboratories, Inc. report No. J-7300 as requested in your letter dated September 30.

This report is a typical consultant-client report which Monsanto shared on a confidential basis with some of the federal agencies. I have no idea who took the liberty of using this information at the Ornithological Congress.

This information along with studies conducted on other laboratory animals was the subject of a paper presented at the annual meeting of the Society of Toxicology in Washington, DC in March, 1971 by Bio-test investigators. I have enclosed a copy of the abstract.

A complete sreport on these studies is now being prepared and should be published during the first quarter of 1972. Because of this imminent publication schedule we believe it would be improper to prematurely divulge the information in detail.

I have also enclosed a collection of articles on polychlorinated biphenyls.

I hope you find this information useful. If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

DSW 171615

WBP/er
Enclosures

424

STLCOPCB4046241

October 12, 1971

Mr. W. Evans Howle
Sonoco Products Company
Hartsville, South Carolina 29550

Re: Sonoco Products
Purchase Order 9904

Dear Mr. Howle:

Enclosed is a copy of the polychlorinated biphenyl (PCB) analytical methodology used by Monsanto laboratories with considerable success.

I hope you find this information useful. If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

Enclosure

DSW 171616

423

STLCOPCB4046242

October 12, 1971

Dr. Doyle E. Roebuck, Manager
Regional Control Laboratory
The Nestle' Company, Inc.
P. O. Box 70
Marysville, Ohio 43040

Dear Dr. Roebuck:

I am sending under separate cover the samples of Aroclors requested in your letter dated October 8.

If I can be of further help please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

DSW 171617

422

STLCOPCB4046243

October 12, 1971

Mr. John Cobler
574 Building
Dow Chemical Company
Midland, Michigan 48640

Dear Mr. Cobler:

Enclosed is a copy of a polychlorinated biphenyl (PCB) analytical methodology used by Monsanto laboratories with considerable success.

I hope you find this information useful and if I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

Enclosure

DSW 171618

cf21

STLCOPCB4046244

October 12, 1971

Mr. S. M. Chapman
Technical Services Division
Pulp and Paper Research Institute of Canada
570 St. John's Boulevard
Pointe Claire 720, P.Q.
Canada

Dear Mr. Chapman:

Enclosed is a copy of polychlorinated biphenyl analytical methodology requested in your letter dated October 5.

This methodology has been used by Monsanto laboratories with considerable success and although not specific to pulp and paper it can be easily adapted.

I hope you find this information useful. If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

Enclosure

bcc: D. Goodwillie - 5080

DSW 171619

420

STLCOPCB4046245

October 12, 1971

Dr. Virginia F. Stout
Research Chemist
Pacific Fishery Products Research Center
National Marine Fisheries Service
2725 Montlake Boulevard East
Seattle, Washington 98102

Dear Dr. Stout:

The primary uses of polychlorinated biphenyls can be summarized as follows:

Current

Electrical Transformers	- Aroclor 1242, Aroclor 1254, Aroclor 1260
Electrical Capacitors	- Aroclor 1221, Aroclor 1016
Heat Transfer Systems	- Aroclor 1242

Former (No longer supplied)

Plasticizers	- Aroclor 1248, Aroclor 1254
Coatings	- Aroclor 1254
Adhesives	- Aroclor 1254
Inks	- Aroclor 1254
Paper Coatings	- Aroclor 1242
Sealants	- Aroclor 1254
Hydraulic Fluids	- Aroclor 1248, Aroclor 1254
Heat Transfer Systems	- Aroclor 1248, Aroclor 1254
Pesticides	- Aroclor 1254

I hope you find this informstion useful. If I can be of further service please let me know.

Sincerely,

DSW 171620

W. B. Papageorge
Manager
Environmental Protection

WBP/er

419

STLCOPCB4046246

October 11, 1971

Dr. H. D. Hathaway
Industrial Products Research Department
Procter and Gamble Company
Ivorydale Technical Center
Cincinnati, Ohio 45217

Dear Dr. Hathaway:

Enclosed is a copy of polychlorinated biphenyl analytical methodology which you requested.

I hope you find this information useful. If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

Enclosure

DSW 171621

417

STLCOPCB4046247

October 11, 1971

Mr. Harry Tyler
Wallace Menhaden Company
1221 North Broad Street
New Orleans, Louisiana 60119

Dear Mr. Tyler:

Enclosed is a copy of polychlorinated biphenyl analytical methodology which you requested from Dr. George L. Romoser.

Laboratories which have considerable experience in the analyses of polychlorinated biphenyls include:

WARF Institute
Madison, Wisconsin

Battelle Institute
Columbus, Ohio

Woodson-Tenent Laboratories
Memphis, Tennessee

Monsanto Research Corporation
1515 Nicholas Road
Dayton, Ohio 45407

I hope this information is useful to you. If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

Enclosure

cc: Dr. G. L. Romoser

DSW 171622

4/6

STLCOPCB4046248

October 11, 1971

Mr. Kenneth D. Smith
Executive Vice President
American Dehydrators Association
800 West 47th Street
Kansas City, Missouri 64112

Dear Mr. Smith:

Mr. R. F. Southerland has informed me of your concern regarding the likely sources accounting for the presence of Aroclor 1242 in dehydrated alfalfa.

I must admit that I am not completely familiar with all possible exposures that alfalfa undergoes during growth and processing but from my knowledge of Aroclor applications I agree that it would be extremely unlikely that these materials would get into a product such as alfalfa except through accident or misapplication.

Examples of misapplication include use of spent transformer fluids containing Aroclors as solvents in the application of weed killers near railroad beds or under power distribution lines. Hopefully this practice has been discontinued.

Aroclors had in the past found limited application in some paint formulations. Could the alfalfa have been exposed to a surface with a deteriorating coating?

You refer in your letter of September 21 to the possible use of Aroclors in pesticides or herbicides. I am not aware of a recommended use in herbicides.

DSW 171623

1415

STLCOPCB4046249

In the late 1950's the U.S. Department of Agriculture had conducted some studies using Aroclors to extend the persistence of chlorinated hydrocarbon insecticides such as lindane. These formulations were recommended for use on hard surfaces to control insects such as roaches, silver fish and flies. They were never broadcast over crops. The use of Aroclors in insecticides was never extensive. For example, in 1969, only 15,000 pounds was sold through distributors for this application.

In October, 1970 the U.S. Department of Agriculture issued PR-75 banning the use of Aroclors in pesticide formulations within six months.

I hope this limited information is useful. If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

cc: Dr. G. L. Romoser
Monsanto Company

Mr. R. F. Southerland
Monsanto Company

DSW 171624

October 11, 1971

Mr. Jim Huber
Cleve-pak Corporation
6201 Barberton Avenue
Cleveland, Ohio 44102

Dear Mr. Huber:

Enclosed is the information on polychlorinated biphenyls I offered to send you. I hope you find it useful and if I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

Enclosures

DSW 171625

4/24

STLCOPCB4046251

W. B. Papageorge - General Offices - B2NK

October 11, 1971

LABELLING ELECTRICAL GRADE AROCLORS
INERTEEN PRODUCTS
TRANSFORMER PYRANOL PRODUCTS
THERMINOL FR SERIES

Reference: Memo GRS to WBP dated 10/1/71

TO: G. R. Sido - G5EC

Bob McCutchan - 1740
G. F. Taylor
P. G. Benignus - B2SH
H. S. Bergen - B2SA
T. L. Gossage - B2SL
J. R. Fallon - B2SH
R. H. Munch - 1760
W. R. Richard - T3A
J. J. Roder - B2SG
D. E. Roush - B2SH
J. R. Savage - B2NB
E. M. Potter
N. T. Johnson - B2SG

My comments pertaining to your memo summarizing the PCB labelling situation are as follows:

Pyranol A-13-B3B

We should retain environmental paragraph as approved by G.E.

Therminol FR Series

Please remove U.L. statement and include disposal statement. V. Koenig has a copy of the label as finally approved.

W. B. Papageorge

WBP/er

DSW 171626

4/3

STLCOPCB4046252

October 11, 1971

Mr. Edward L. Raab
Manager of Materials Engineering
Transformer Division, Bldg. 11-223
General Electric Company
Pittsfield, Massachusetts 01201

1-413-443-3511

Dear Ed:

Enclosed is a copy of the material the FDA released to the press during Commissioner Edwards' September 29 conference.

I hope you find it useful.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

Enclosure

DSW 171627

412
4/10

STLCOPCB4046253

October 11, 1971

Dr. A. Pozefsky
Industrial and Power Capacitor Products Department
General Electric Company
John Street
Hudson Falls, New York 12839

Dear Al:

Attached are two copies of the information that FDA gave to the press on September 29. I hope you find it useful.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

Enclosures

DSW 171628

411
Hog

STLCOPCB4046254

October 11, 1971

Mr. J. Euson
Production Manager
Finn Industries
Folding Carton Division
University Boulevard
Jacksonville, Florida 32217

Dear Mr. Euson:

I have enclosed copies of information on polychlorinated biphenyls (PCB's) produced and marketed in this country by Monsanto and sold under the trademark Aroclors.

I hope you find this information useful to you. If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

Enclosures

DSW 171629

410
~~408~~

STLCOPCB4046255

October 11, 1971

Mr. Eugene R. Smith
Pet Foods Division Engineering
Quaker Oats Company
Merchandise Mart Plaza
Chicago, Illinois 60654

Dear Mr. Smith:

Enclosed is the polychlorinated biphenyl information I offered to send.

I hope you find it useful. If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

Enclosures

DSW 171630

409

STLCOPCB4046256

October 11, 1971

517-353-6376

Dr. Matthew J. Zabik
Pesticide Research Center
Michigan State University
East Lansing, Michigan 48823

Dear Dr. Zabik:

I am sending under separate cover samples of commercially available polychlorinated biphenyls sold as Aroclors as requested in your letter dated October 1.

I regret I cannot send any of the homologs or isomers listed because we have non on hand.

The manufacture of Aroclors involves the introduction of gaseous chlorine into a molten charge of biphenyl in the presence of iron. There are no patents relating to this process.

The biphenyl used by Monsanto for the Aroclor synthesis must meet the physical characteristics listed on page 3 of the attached technical bulletin O/Cl-2.

I hope this information is useful to you. If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

Enclosure

DSW 171631

406
408

STLCOPCB4046257

October 11, 1971

Mr. Henry Fick
Commercial Solvents Company
P. O. Box 420
Terre Haute, Indiana 47808

Dear Mr. Fick:

I am sending under separate cover samples of Aroclor 1242 and Aroclor 1254 to be used as laboratory polychlorinated biphenyl standards.

I am enclosing a copy of the analytical methodology used by Monsanto laboratories.

I hope you find this information useful. If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

DSW 171632

405

STLCOPCB4046258

October 11, 1971

Mr. John G. Lipps, Jr.
Pan American Laboratories, Inc.
5369 East 14th Street
P. O. Box 1546
Brownsville, Texas 78520

Dear Mr. Lipps:

I am sending under separate cover samples of Aroclor 1242, Aroclor 1254 and Aroclor 1260 which you requested in your letter dated October 7.

I regret I could not include a sample of Aroclor 1248. We no longer manufacture this material and our supply of samples has been exhausted. I hope the lack of a sample of Aroclor 1248 does not seriously inconvenience you.

If I can be of further help let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

DSW 171633

406

STLCOPCB4046259

October 11, 1971

215-732-7050

Dalare Associates
2300 Locust Street
Philadelphia, Pennsylvania 19103

Gentlemen:

I am sending under separate cover samples of Aroclor 1242 and Aroclor 1254 for use as polychlorinated biphenyl laboratory standards as requested by Monsanto's Mr. Mike Marshall.

I have enclosed a copy of analytical methodology used by Monsanto laboratories with considerable success.

I hope you find this information useful and if I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

Enclosure

cc: Mike Marshall
Wilmington Office
Monsanto Company

DSW 171634

~~403~~
405

STLCOPCB4046260

October 11, 1971

Mr. Phillip S. Blatz
Experiment Station, Research and
Development Division
E. I. DuPont DeNemours & Company, Inc.
Wilmington, Delaware 19898

Dear Mr. Blatz:

Enclosed are copies of the polychlorinated biphenyl articles I offered to send.

I hope you find this information useful. The article by Berg, et.al. is intriguing to our analytical staff who are now actively evaluating it.

I again discussed with our Medical Department, Elmer Wheeler specifically, the need for reviewing information with your Dr. John Zapp. Elmer indicated he had recently, October 4 and 5, attended a session with DuPont personnel on halogenated biphenyls and terphenyls but would again review with Dr. Zapp or his associates the decachlorobiphenyls.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

Enclosures

bcc: D. R. Pogue - B2SJ

DSW 171635

4c4

STLCOPCB4046261

W. B. Papageorge - General Offices - B2NK

October 11, 1971

D. W. Roberts - 1180
Chicago Sales Office

Attached are two copies of polychlorinated analytical methodology I offered to send.

You may make copies of this information and share it freely with customers, university laboratories or governmental agencies.

W. B. Papageorge

WBP/er

Enclosures

DSW 171636

4/03

STLCOPCB4046262

October 11, 1971

Mr. Joel Ware
Georgia-Pacific Company
P. O. Box 1236
Billingham, Washington 98225

Dear Mr. Ware:

Laboratory studies on the solubility of polychlorinated biphenyls in water were conducted by Monsanto's Research Department.

At 25°C. the solubilities were as follows:

Aroclor 1242 (42% chlorine)	200 ppb
Aroclor 1248 (48% chlorine)	100 ppb
Aroclor 1254 (54% chlorine)	50 ppb

These values are probably accurate with ± 10%.

I hope this information is useful to you. If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

DSW 171637

STLCOPCB4046263

October 8, 1971

Mr. Henry R. Friedberg
Crobaugh Laboratories
3800 Perkins Avenue
Cleveland, Ohio 44114

Dear Mr. Friedberg:

I am sending under separate cover samples of Aroclor 1242 and Aroclor 1254 which you requested in your letter dated October 4.

I regret I could not include a sample of Aroclor 1248. We no longer manufacture this mixture of polychlorinated biphenyls and our supply of samples has been depleted.

I hope the lack of Aroclor 1248 does not seriously inconvenience you.

If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Materials & Services

WBP/er

DSW 171638

401

~~369~~ 371

STLCOPCB4046264

October 8, 1971

Dr. Charles Varsel
Coca-Cola Foods Division
Citrus Research and Development Laboratory
Plymouth, Florida 32768

Dear Dr. Varsel:

I am sending under separate cover the sample of polychlorinated biphenyl you requested. The material you will receive is typical of the type found as a contaminant in recycle paper products.

If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

bcc: R. Bowden - Atlanta Office
Ann Mahady - Atlanta Office

DSW 171639

400

STLCOPCB4046265

W. B. Papageorge - General Offices - B2MK

October 8, 1971

W. C. Hammann - B2SB

T. S. Sarsfield - 1650
New York Sales Office

I have arranged for samples of Aroclor 1242, Aroclor 1254 and Aroclor 1260 to be mailed to you for subsequent delivery to General Foods.

If I can be of further service please let me know.

W. B. Papageorge

WBP/er

DSW 171640

399

STLCOPCB4046266

October 8, 1971

206-442-4430

Dr. Virginia Stout
National Marine Fisheries Service
Tech Laboratory
2725 Montlake Blvd.
Seattle, W shington 98102

Dear Dr. Stout:

Enclosed is the polychlorinated biphenyl information which I offered to send you.

I hope you find it useful and if I can be of further service please leteme know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

Enclosures

DSW 171641

398
~~396~~

STLCOPCB4046267

October 8, 1971

Mr. E. Dahlgren
Georgia-Pacific
Bellingham, Washington 98225

Dear Mr. Dahlgren:

I am forwarding under separate cover the samples of Aroclor 1242 and Aroclor 1254 you requested for use as laboratory standards.

If I can be of further service please let me know.

Sincerely,

W. B. Papageorge
Manager
Environmental Protection

WBP/er

DSW 171642

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