July 18, 1973

Dr. G. Fred Lee
919 Park Lane
Bryan, Texas 77801

Dear Fred:

We have rescheduled your lecture for October 3. Incidentally, we are publicizing your presentation under the title of "The Significance of Chemicals in Natural Water Systems".

I hope you enjoy your trip to Israel. I am looking forward to seeing you on October 3.

Sincerely,

W. B. Papageorge
Manager
Product Acceptability

WBP/bt

DSW 173771

479

STLCOPCB4048292

W. B. Papageorge - General Offices, B1ND

July 16, 1973

R. E. Keller - T1B
W. R. Richard - T3A
J. F. Stapleton - B2SA
R. A. Stohr - A3SB

Dr. E. S. Tucker
T2F

Attached is a copy of the PCB analytical methodology mentioned in the FDA PCB regulation published in the July 6, 1973 issue of the Federal Register.

May I have your comments.

W. B. Papageorge

/bt

Attachment

DSW 173772

478

STLCOPCB4048293

W. B. Papageorge - General Offices, B1ND

July 16, 1973

BONE MEAL SPECIFICATIONS

J. E. Eldridge - 1150
E. L. Moore - B2SJ
H. Teicher - N1A
J. J. Zeman - B2SB

Mr. D. C. Dieterich
1150 - Camden

Back in March 1973, Ed Moore offered three sets of specifications relating to Bone Meal and requested that we proceed to establish approved raw material specifications.

Since then I have been attempting to find appropriate analytical methodologies. Emerson Eldridge informed me in April that he had only two procedures available to him for analyzing Bone Meal -- Grease by Benzol Extract, Method No. 07-207-11-71; and Moisture and Loss on Ignition, Method No. 07-207-9A-58.

Harry Teicher had suggested we approach the U.S. producers requesting they share their methods with us. Ed Moore is pursing this. Harry also suggested that methods found in the Official Methods of Analysis of AOAC dated 1970 are applicable. Copies of the appropriate methods are attached.

% H_2O	Method 7.008
% Fat	Method 7.048 or 7.049
% Protein	Method 7.016 in combination with 2.051
% Ca	Method 71076 or Method 7.077
% P	Method 7.094 in combination with 2.031a or Method 7.095 - 7.098
% Ash	Method 7.010
% HCL Insolubles	Take residue from 7.010 and analyze by our Method 07-207-7-55

Will you please have someone develop plant analytical procedures based on these AOAC methods.

W. B. Papageorge

/bt

Attachments

DSW 173773

477

STLCOPCB4048294

W. B. Papageorge - General Offices, B1ND

July 16, 1973 C. R. Williams - B2SG

MCC-100, MCC-200 & MCC-300
J. P. STEVENS & CO., INC.

Dr. W. F. Symes
N1A

Attached are forms submitted by J. P. Stevens requesting analytical information relating to our MCC-100, MCC-200 and MCC-300. A search of my files has been made and I find no pertinent information. Do we have any data that we can share with J. P. Stevens?

W. B. Papageorge

/bt

Attachment

DSW 173774

476

STLCOPCB4048295

W. B. Papageorge - General Offices, B1ND

July 16, 1973

H. S. Bergen - B2SL
W. R. Corey - B2SL
E. P. Wheeler - A2SA

PCB REVIEW -
MONSANTO EUROPE

Mr. John Mason
5040 - Brussels

Attached is a list of topics which I would like to discuss with the appropriate individuals. Will you arrange to have someone put together an itinerary allowing adequate time to pursue each subject thoroughly.

Elmer Wheeler may be able to accompany me. Because of prior commitments we are most anxious that this program be scheduled as soon as possible.

W. B. Papageorge

/bt

Attachment

DSW 173775

475

STLCOPCB4048296

W. B. Papageorge - General Offices, B1ND

July 16, 1973

TOXICITY STUDIES

W. R. Corey - B2SL
A. J. Koenig - B2SK
W. R. Richard - T3A

Mr. H. S. Bergen
B2SL

Attached is a summary of toxicity studies initiated during the second quarter of this year for the Specialty Products Group.

W. B. Papageorge

/bt

Attachment

DSW 173776

474

STLCOPCB4048297

W. B. Papageorge - General Offices, B1ND

July 16, 1973

TOXICITY STUDIES

W. R. Corey - B2SL
W. F. Symes - N1A
S. R. Hinds - B2SB

Mr. R. S. Baker
B2SB

Attached is a summary of toxicity studies initiated during the second quarter of this year for the Special Chemical Systems Group.

W. B. Papageorge

/bt

Attachment

DSW 173777

473

STLCOPCB4048298

W. B. Papageorge - General Offices, B1NH

July 16, 1973

Mr. L. D. Press
B2SD

Enclosed is a copy of the sample letter prepared by Dr. DeGarmo that I offered to send you.

W. B. Papageorge

/bt

Enclosure

DSW 173778

STLCOPCB4048299

July 16, 1973

Mr. John Harmon
Addressograph Multigraph Research
19701 S. Miles
Warrensville Heights, Ohio 44128

Dear Mr. Harmon:

Monsanto's Mr. F. B. Klemencic has informed me of your request for a Material Safety Data Sheet covering our Lampblack 10C. Attached is a data sheet covering this product.

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

Sincerely,

W. B. Papageorge
Manager
Product Acceptability

WBP/bt

Attachment

cc: Mr. F. B. Klemencic

DSW 173779

4771

STLCOPCB4048300

July 13, 1973

Dr. Martha Sager, Chairman
Effluent Standards and Water Quality
Information Advisory Committee
Environmental Protection Agency
Room 821, Crystal Mall, Building 2
Washington, D.C. 20460

Re: Effluent Standards and Water Quality
Information Advisory Committee
Agenda and Notice of Public Hearings
Federal Register, Vol. 38, No. 116, Page 11868
Monday, June 18, 1973

Dear Dr. Sager:

Monsanto Company, as an interested party and a manufacturer of polychlorinated biphenyl (PCB), would like to take this opportunity to share with the Committee, and present for the record, our experiences regarding the manufacture, sale and handling of PCB and its relationship to the environment.

We hope this information, along with the attached exhibits, will be helpful to the Committee and the Administrator when proposing effluent standards for toxic pollutants.

BACKGROUND

Monsanto Company has been a major manufacturer of chemical products since 1901. These products are used in numerous American industries, and in fact, through our research department, we have played a role in developing new products to meet the needs of industry and the consumer.

On some occasions a chemical compound with specific properties is developed to meet a need in a certain application. In other cases a chemical compound with unique properties is developed first -- possibly through innovative research or even by happenstance -- and then an end-use is found.

DSW 173780

alc - -

470

STLCOPCB4048301

The chemical structure of PCB has been known for nearly 100 years. It was not until the late 1920s that a use for PCB was found -- as a dielectric fluid in transformers and capacitors. The properties of PCB -- inertness, fire resistance and a nonconductor of electricity -- seemed to be perfectly suited to these electrical applications where high-voltage arcing could occur, possibly resulting in serious fires or damage to the equipment.

Monsanto began commercial production of PCB in 1929. As the unique properties of the material became known new uses were found. For example, their fire-resistant nature made them excellent choices for use in heat-transfer fluids. Their inertness gave long-lasting qualities to lubricants. Their use in surface coatings improved waterproofing characteristics.

Handling of the product at the manufacturing level has not presented problems so long as the proper industrial hygiene practices were followed and PCB has always been considered less hazardous than many other chemicals in everyday use.

Therefore, it appeared that PCBs were a very suitable product which met the needs of industry.

Late in the 1960s, sophisticated analytical procedures were developed which could detect very minute quantities of PCB in nature. Following this analytical breakthrough, researchers discovered that PCB could possibly be affecting certain forms of aquatic, marine, terrestrial and avian wildlife.

The persistent nature and stability of PCB, while so desirable from the standpoint of many industrial applications, appeared to be undesirable in terms of our environment.

INDUSTRY ACTIONS

When questions about the effect of PCB on the environment first surfaced, Monsanto Company reviewed its product line and the applications for these products. As more data were developed and the environmental controversy grew, Monsanto took steps intended to reduce the entry of PCB into the environment. The company stopped the sale of PCB for use in various applications, except where no acceptable alternatives were available.

Today, PCB manufactured by Monsanto Company is sold to the electrical industry where it is used in closed systems as a dielectric fluid in transformers and capacitors -- applications for which we understand there continue to be no acceptable substitutes.

Our manufacturing and sales reduction program was a unilateral action taken by Monsanto and was based on our evaluation of developing environmental data.

Recognizing the need for proper controls in the handling and use of PCBs, representatives of the transformer and capacitor industries, utilities, and governmental agencies under the initial auspices of the National Electrical Manufacturers Association formed American National Standards Institute Committee C-107. A copy of the Committee's recently issued proposed guidelines for the handling and disposal of dielectric fluids is attached. These guidelines reflect the industry's understanding of the need for proper control and should contribute significantly toward this objective.

TOXICITY IN PERSPECTIVE

In Section 502 (13) of the current Federal Water Pollution Control Act, the term "toxic pollutant" is defined as "those pollutants or combinations of pollutants including disease causing agents, which after discharge or upon exposure, ingestion, inhalation or assimilation into any organism, either directly from the environment or indirectly by ingestion through food chains will, on the basis of information available to the Administrator, cause death, disease, behavioral abnormalities, cancer, genetic mutations, physiological malfunctions (including malfunctions in reproduction) or physical deformations in such organisms or their offspring."

While the breadth of this definition can be so construed as to permit the inclusion of many substances on a list of "toxic pollutant(s)," we concur with the recent suggestion of the EPA's Acting Administrator (Federal Register Vol. 38, No. 129, page 18044) that Congress intended the Administrator under the Act "... to be selective in determining which of the potentially large number of candidate substances

actually should be listed at various times." Although not spelled out in the definition, we feel it important to consider the degree of toxicity of the substance; differences in biological species' sensitivity; and, whether or not the substance poses a threat to man, animals, birds, the aquatic environment or some other aspect of the ecosystem.

For example, there is a material difference between the threat to human health posed by equal amounts of the "cyanide ion" and "PCBs," both of which substances appear on your proposed list of pollutants. We feel certain the members of your committee will agree that these two substances should not be considered on the same basis merely because they are both suggested for inclusion in the same list.

We trust that comparative differences in the potential hazard to health and our environment of the various substances proposed for your list will be an important factor in your deliberations and determinations.

On the basis of available evidence, it would appear that PCBs pose less of an acute toxic health hazard than many substances not proposed for your list, and at the levels found in the total environment are not a threat to public health. We believe these views agree with the conclusions reached by the Interdepartmental Task Force on PCBs in its report dated May, 1972 (COM-72-10419).

We sincerely believe, because of Monsanto's sales policies discussed elsewhere, and actions of others throughout the world, that the levels of PCB in the aquatic environment are even lower now than at the time the Task Force report was prepared.

BIODEGRADATION

A valid assessment of the environmental impact of polychlorinated biphenyls must include consideration of the persistence of these materials. Certain reports have been made that PCBs are non-degradable. However, although much work remains to be done, an analysis of available information and information from studies by Monsanto indicate beyond any reasonable doubt that the many PCB

isomers degrade in the environment at different rates. This information indicates that under the proper conditions of use and control, some of the commercial PCBs, which are mixtures of several isomers, can be utilized and their safety benefits can be realized without serious adverse consequences to the environment.

In May, 1972 we shared with members of the Federal Interdepartmental Task Force on PCBs the results of studies of residual PCBs in animal tissues and biodegradation by activated sludges. A copy of this presentation is attached for review by your Committee. Articles describing in more detail the results of the degradation studies in activated sludges and soils are being prepared for publication. Copies of these reports will be mailed to your Committee when they are completed.

EFFLUENT STANDARDS

The worldwide interest in PCBs and their environmental impact has resulted in an abundance of published articles. To assist the Committee we have attached a bibliography of some of the pertinent literature, copies of selected articles and a copy of the Interdepartmental Task Force report. This report, in our opinion, is an excellent reference document and we recommend it to the Committee as a valuable source of information as you consider possible effluent standards.

Although much has been published, much more scientific information is required. This critical need for more knowledge was recognized by the Task Force and is highlighted in its report under "Findings, Conclusions and Recommendations".

It is our considered opinion that in the absence of critical basic scientific data any attempt to establish a PCB standard for water effluents at point sources would be premature at this time.

Pending the availability of the data which would contribute to the establishment of a realistic effluent standard, it is appropriate to consider that the restricted use and proper control of PCBs have and will continue to result in a diminished impact on the environment. Furthermore, the recent ruling by the Food and Drug Administration

(Federal Register, Volume 38, Number 129, July 6, 1973) provides for temporary PCB tolerances in food, animal feeds and food packaging materials, thereby limiting exposure to humans and domestic animals.

We appreciate the opportunity the Committee has provided for interested parties to contribute information. If you have any questions concerning our comments or any of the attachments we will be pleased to supply further explanations or information upon request.

Respectfully submitted,

W. B. Papageorge
Manager
Product Acceptability

WBP/bt

Enclosures

bcc: H. S. Bergen
W. R. Corey
C. P. Cunningham
K. W. Easley
J. T. Garrett
D. B. Hosmer
E. V. John
R. E. Kelly
P. S. Park
J. F. Stapleton
E. P. Wheeler

W, X, BB
Lit Bibliography w/E & selected articles

DSW 173785

STLCOPCB4048306

W. B. Papageorge - General Offices, B2NA

July 13, 1973

Mr. K. W. Easley
1920

Attached is a letter for Dr. Martha Sager's Committee. Pres Cunningham is reviewing. Please do not deliver it until you have received notice that Pres has approved.

W. B. Papageorge

/bt

Attachment

DSW 173786

STLCOPCB4048307

W. B. Papageorge - General Offices, B2NA

July 13, 1973 W. R. Corey - B2SL

Mr. C. P. Cunningham
B2SA

Attached is a copy of a letter to Dr. Martha Sager, Chairman of a committee which is holding hearings this coming Monday, July 16, to consider toxic pollutant standards.

Wink Corey, John Stapleton, Des Hosmer, Elmer Wheeler, Ed John, Howard Bergen and others have all participated in its preparation.

The original, with attachments, has been forwarded to Warren Easley with instructions that he deliver it to Dr. Sager after we have received your approval. I would appreciate your review and comments. I recommend that, if this letter is acceptable, we inform Warren in time for him to deliver it early Monday.

W. B. Papageorge

/bt

Attachment

DSW 173787

468

STLCOPCB4048308

July 12, 1973

Mr. John Newberry
Remet Corporation
Terminal Building
Oneida County Airport
Oriskany, New York 13424

Dear Mr. Newberry:

Attached is the form from the State of Connecticut, Department of Environmental Protection, containing the information you requested on Monsanto's Silester OS.

This form should by signed by the appropriate individual in your company and forwarded to Mr. Gerald Bradsky.

Sincerely,

W. B. Papageorge
Manager
Product Acceptability

WBP/bt

Attachment

cc: Mr. N. H. Kasten
Mr. C. H. Matzek

DSW 173788

467

STLCOPCB4048309

W. B. Papageorge - General Offices, B2HA

July 12, 1973

HYDRAULIC FLUIDS --
UNITED AIRLINES
Memo, DH to CP, 6/22/73

R. Bevacqua - 1550
G. F. Fague - B2SC
D. R. Hansen - Santa Clara
R. E. Hatton - B2SC
R. L. Koch - B2SC

Dr. C. Paton
B2SC

I contacted Mr. Arvil Crase of the Disposal Division of Nuclear Engineering Company, Sheffield, Illinois, 815-454-2624. He informed me that his operation could not handle the United Airlines waste fluids and suggested that I contact Mr. Werner T. Michau of Texas Ecologists, Inc., Houston, Texas, 713-443-2275. Texas Ecologists appears to be a subsidiary of Nuclear Engineering.

Mr. Michau appeared to be interested in working with us and requested the following information:

(1) What quantities of fluid are involved?

(2) Is it in bulk or containers?

(3) What mode of transportation would be utilized?

Will you please have someone in your organization contact Mr. Michau for further information.

W. B. Papageorge

/bt

DSW 173789

STLCOPCB4048310

W. B. Papageorge - General Offices, B2NA

July 12, 1973 E. P. Wheeler - A2SA

NERC/RTP POSITION PAPER
ON POLYCHLORINATED BIPHENYLS

Dr. R. E. Keller
T1B

The National Environmental Research Center has prepared a draft of a PCB position paper. Elmer Wheeler has been asked by the chairman, Mr. James R. Smith, to comment.

I have attached the portion of the report that relates to sampling and analytical methodology. Will you please have someone in your group review this portion and submit his comments to Elmer.

W. B. Papageorge

/bt

Attachment

DSW 173790

11.5

STLCOPCB4048311

W. B. Papageorge - General Offices, B2NA

July 12, 1973

SANTOCEL 62 -
DOW CORNING SPECIFICATION
WBP Memo dated 7/11/73

E. H. Kimball - 1410
C. H. Matzek - B2SJ
E. L. Moore - B2SJ
H. Teicher - N1A
A. A. Thompson - 1410

Messrs.

J. DiTommaso - 1410
R. D. McDaniel - B2SJ
W. L. Merman - 1410
W. F. Symes - N1A

Attached is a CORRECTED COPY of the Finished Product Specification for Santocel 62 sold to Dow Corning. The specification sent to you on July 11 proposed Viscosity limits of 350-650 cps -- it should have read 250-650 cps. Please destroy the specification sent to you previously and replace with the attached.

W. B. Papageorge

/bt

Attachment

DSW 173791

STLCOPCB4048312

W. B. Papageorge - General Office, B2NA

July 11, 1973

C. S. Alack - B2SJ
E. K. Brakebill - B2SJ

Dr. G. J. Levinskas
A2SC

Attached is a request for toxicological information on EMA 1103 and EMA 1605 from Brussels. I have also attached a summary prepared by Dr. William H. Hunt.

Will you please review Dr. Hunt's information and determine if information on EMA 1605 is available.

W. B. Papageorge

/bt

Attachment

DSW 173792

STLCOPCB4048313

July 11, 1973

Mr. E. W. Hitchcock
Chief Chemist
Rust-Lick, Inc.
92 Taylor Street
Danbury, Connecticut 06810

Dear Mr. Hitchcock:

I recently received a copy of your letter dated June 29 in which you requested a Material Safety Data Sheet (OSHA-20) on "Chlorinated Biphenyl."

Those materials commonly referred to as polychlorinated biphenyls (PCBs) have been determined to be environmental pollutants, and their sales have been restricted to applications as a dielectric fluid in transformers and capacitors.

Since these materials are no longer available for applications such as yours, it would appear that a safety data sheet would not be required.

If polychlorinated biphenyls are still present on your premises or are being incorporated in your products, I strongly advise that serious consideration be given to the termination of their use and the proper disposal of the currently available material.

Sincerely,

W. B. Papageorge
Manager
Product Acceptability

WBP/bt

DSW 173793

STLCOPCB4048314

July 11, 1973

Department of Health,
Education and Welfare
Room 6-89
5600 Fishers Lane
Rockville, Maryland 20852

Attention: Hearing Clerk

I am interested in obtaining a copy of the "Analytical Methodology for Polychlorinated Biphenyls, February 1973" as referred to in § 122.10 (b) of the Federal Register, Volume 28, No. 29, dated Friday, July 6, 1973.

Thank you for your consideration given this request.

Sincerely,

W. B. Papageorge
Manager
Product Acceptability

WBP/bt

DSW 173794

STLCOPCB4048315

July 11, 1973

Mr. J. K. Dana
Purchasing Agent
USCI, A Division of
C. R. Bard, Inc.
Billerica, Massachusetts 01821

Dear Mr. Dana:

I recently received a copy of your letter to Monsanto Company dated June 8, 1973 in which you requested information relating to Aroclor 1262.

Because of environmental considerations, Monsanto has not marketed Aroclor 1262 since 1970. Therefore, the information you request would not appear to be of any usefulness.

In the event you still have some of this material on your premises, I strongly recommend that you terminate the use of this material and dispose of any inventory in such a manner that will not result in contamination of the environment.

Sincerely,

W. B. Papageorge
Manager
Product Acceptability

WBP/bt

DSW 173795

2460

STLCOPCB4048316

W. B. Papageorge - General Offices, B2NA

July 11, 1973

C. H. Matzek - B2SJ
R. D. McDaniel - B2SJ
H. Teicher - N1A

SANTOCEL C --
SHINETSU CHEMICAL

Mr. T. Ishijima
5270 - Japan

In responding to your memo to R. D. McDaniel dated June 19, I have the following information to offer:

Lead	< 10 ppm
Arsenic	< 3 ppm
Heavy Metals (as Pb)	< 30 ppm
Phosphorus	None detectable
Phenols	None detectable
Polychlorinated Biphenyl	None detectable

W. B. Papageorge

/bt

DSW 173796

W. B. Papageorge - General Offices, B2NA

July 11, 1973 R. E. Keller - T1B

Mr. G. W. Mappes
T2B

I have just received a request from Professor Lee that I reschedule his seminar from September 26 to October 3. A copy of his letter is attached.

Can this be done?

W. B. Papageorge

/bt

DSW 173797

U.S.

STLCOPCB4048318

W. B. Papageorge - General Offices, B2MA

July 11, 1973

J. F. Stapleton - B2SA
R. A. Stohr - A3SB
E. S. Tucker - T2F

Dr. H. I. Weingarten
Q2A

Attached is a copy of correspondence from Dr. Lee at the University of Wisconsin in which he refers to some studies which were conducted at the University of Minnesota indicating that chlorination of hydrocarbons has been demonstrated in municipal sewage treatment. Will you please contact the principal investigator, Mr. R. M. Carlson, for further details.

W. B. Papageorge

/bt

Attachment

cc: Mr. L. P. McFarland
Attorney at Law
Columbia, Tennessee

DSW 173798

STLCOPCB4048319

W. B. Papageorge - General Offices, B2NA

July 11, 1973

SANTOCEL 62 -
DOW CORNING SPECIFICATION

E. H. Kimball - 1410
C. H. Matzek - B2SJ
E. L. Moore - B2SJ
H. Teicher - N1A
A. A. Thompson - 1410

Messrs.

J. DiTommaso - 1410
R. D. McDaniel - B2SJ
W. L. Merman - 1410
W. F. Symes - N1A

Recently a Finished Product Specification for Santocel 62 sold to Dow Corning was approved. Following the formal approval, comments were received relating to our ability to consistently produce material that would meet the moisture and viscosity requirements.

I have attached a proposed specification which has been suggested by Marketing. Following approval from each of you, Marketing will offer this proposal to Dow Corning for their consideration and acceptance. Until we receive their approval we must continue to ship against the existing specification.

We are very anxious to expedite the acceptance of this proposed specification and we would appreciate your comments prior to July 17.

W. B. Papageorge

/bt

Attachment

DSW 173799

456

STLCOPCB4048320

July 11, 1973

Dr. Larry G. Hansen
Department of Veterinary
Physiology and Pharmacology
College of Veterinary Medicine
University of Illinois at
Urbana-Chamgaign
Urbana, Illinois 61801

Dear Dr. Hansen:

Enclosed is a copy of the summary of toxicological studies I promised to send you. I hope you find it informative.

I have just received your letter dated July 5 with a copy of your Fourth Quarterly Report to the FDA. As soon as we have had an opportunity to review it we will offer you our comments.

Your suggestion that our two research groups exchange more ideas sounds very interesting and I intend to pursue with the proper Monsanto people the idea of presenting a seminar to your group later this year.

Sincerely,

W. B. Papageorge
Manager
Product Acceptability

WBP/bt

Enclosure

DSW 173800

1125

STLCOPCB4048321

July 10, 1973

Mr. Ken Price
Clark, Deitz & Associates
211 North Race
Urbana, Illinois 61801

Dear Mr. Price:

Enclosed are copies of the literature pertaining to polychlorinated biphenyls that you requested. I hope you find them interesting and informative.

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

Sincerely,

W. B. Papageorge
Manager
Product Acceptability

WBP/bt

Enclosures

M, O, T, X

DSW 173801

1524

STLCOPCB4048322

July 10, 1973

Dr. Walter Ezekiel
Bioteknika International Inc.
5510 Vine Street
Alexandria, Virginia 22310

Dear Dr. Ezekiel:

I have received your request for a one pint sample of Aroclor 1242 and am forwarding this sample to you under separate cover.

Monsanto's Dr. Paton has informed me of your request for literature on our PCB-containing products. I have enclosed a copy of our methodology for the determination of polychlorinated biphenyls, a copy of Monsanto Technical Bulletin O/PL-306A and a copy of an article from the Encyclopedia of Chemical Technology. I hope you find these publications useful and informative.

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

Sincerely,

W. B. Papageorge
Manager
Product Acceptability

WBP/bt

Enclosure

cc: Dr. C. Paton

E, O, T
A-1242 S/n 1710

DSW 173802

1153

STLCOPCB4048323

W. B. Papageorge - General Offices, B2NA

July 9, 1973

H. S. Bergen - B2SL
J. F. Stapleton - B2SA
E. P. Wheeler - A2SA

PCB REVIEW --
MONSANTO EUROPE

Mr. W. R. Corey
B2SL

Attached is a draft of subject items which I believe I should review with John Mason et al.

I would appreciate comments from all recipients before I prepare the final list which I can forward to John for the preparation of a trip itinerary.

W. B. Papageorge

/bt

Attachment

DSW 173803

4552

STLCOPCB4048324

W. B. Papageorge - General Offices, B2NA

July 9, 1973

PUBLICATION OF MONSANTO PCB STUDIES

Memo, EST to WBP, 5/2/73

Dr. E. S. Tucker
T2F

H. S. Bergen - B2SL
W. R. Corey - B2SL
O. Hicks - T2F
R. E. Keller - T1B
W. J. Litschgi - T3E
W. M. Mees - T2F
R. H. Munch - T1B
W. R. Richard - T3A
V. W. Saeger - T2B
J. F. Stapleton - B2SA
E. P. Wheeler - A2SA

As discussed, will you please proceed to prepare for publication the following which appeared in your referenced memo.

Activated Sludge Degradation of Polychlorinated Biphenyls

Polychlorinated Biphenyl Soil Migration Studies

The following articles:

Polychlorinated Biphenyl Residue Studies with Albino Rats Orally Exposed to Aroclor 1221, Aroclor 1242, Aroclor 1254 and Aroclor 1260

Polychlorinated Biphenyl Residue Studies with Beagle Dogs Orally Exposed to Aroclor 1242, Aroclor 1254 and Aroclor 1260

Polychlorinated Biphenyl Residue Studies with White Leghorn Chickens Orally Exposed to Aroclor 1242, Aroclor 1254 and Aroclor 1260

will not be prepared for publication pending further review at a later date.

W. B. Papageorge

/bt

DSW 173804

451

STLCOPCB4048325

July 9, 1973

Mr. Richard Rollins
Jard Company, Inc.
Bowen Road
Bennington, Vermont 05201

Dear Dick:

Attached are copies of the embassy cablegram and the reference to Mr. Miyakawa, U.S. Department of Commerce, which I offered to send you.

I hope you find this information useful. If there are any further developments I will forward them to you.

Sincerely,

W. B. Papageorge
Manager
Product Acceptability

WBP/bt

Attachments

cc: Mr. P. G. Benignus

DSW 173805

STLCOPCB4048326

July 9, 1973

Mr. George Fulginiti
McKesson Chemical Company
241 Corporation Way
Medford, Massachusetts 02155

Dear Mr. Fulginiti:

As you requested last Friday, enclosed is a Product Specification sheet covering Monsanto's Santocel Z.

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

Sincerely,

W. B. Papageorge
Manager
Product Acceptability

WBP/bt

Enclosure

DSW 173806

449

STLCOPCB4048327

July 6, 1973

Mr. Sergio Iturri
Poultry Science Department
College of Agriculture
and Natural Resources
Michigan State University
East Lansing, Michigan 48823

Dear Mr. Iturri:

Enclosed is an Aroclor 1016 Chromatogram, a table depicting the typical properties of Aroclor 1016 and a comparison of the specifications for Aroclor 1016 and Aroclor 1242 as you requested in your letter dated June 26.

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

Sincerely,

W. B. Papageorge
Manager
Product Acceptability

WBP/bt

Enclosures

A-1016 Chromatogram
A-1016 Typical Properties
A-1016/A-1242 Comparison of Specs.

DSW 173807

4/1

STLCOPCB4048328

July 9, 1973

Dr. Lewis Greenwald
Department of Zoology
College of Biological Sciences
The Ohio State University
1735 Neil Avenue
Columbus, Ohio 43210

Dear Dr. Greenwald:

In response to your letter dated June 21, I have enclosed a sample request form. Upon receipt of the completed form I will make arrangements to have the samples you request forwarded to you.

On occasion Monsanto has supported outside research, particularly for studies uniquely designed to support Monsanto programs. As you know, many laboratories have studied, and continue to study, the effects of the various polychlorinated biphenyl mixtures on many types of fish. The high interest which is apparent in the studies has resulted in many published reports with many more expected in the near future. In many cases the studies are redundant with no new information being contributed to our understanding of the effect of polychlorinated biphenyls on aquatic life. It does not appear to us that further studies with fish can be justified at this time.

Sincerely,

W. B. Papageorge
Manager
Product Acceptability

WBP/bt

Enclosure

DSW 173808

STLCOPCB4048329

July 6, 1973

Mr. M. D. Svensen
GTE Sylvania
816 Lexington Avenue
Warren, Pennsylvania 16365

Dear Mr. Svensen:

We have received your Purchase Order No. WW-53520 dated June 27, 1973 for one pint each of Aroclor 5442 and Aroclor 1260 and regret to inform you that, due to environmental considerations, Monsanto has discontinued the manufacture and sale of both these products. 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
Product Acceptability

WBP/bt

DSW 173809

STLCOPCB4048330

July 5, 1973

Mr. James R. Smith
Director, Special Studies Staff
National Environmental Research Center
Research Triangle Park, N. C. 27711

Dear Mr. Smith:

During our recent meeting at which we discussed polychlorinated biphenyls, I offerred to send you a copy of the summary of Monsanto Company's PCB production and sales.

I have enclosed a revised copy which shows the final information for 1972 and also contains a prediction for 1973.

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

Sincerely,

W. B. Papageorge
Manager
Product Acceptability

WBP/bt

Enclosure

cc: Mr. E. P. Wheeler

DSW 173810

STLCOPCB4048331

July 5, 1973

Dr. Claes Ramel
Environmental Toxicological Unit
Wallenberg Laboratory
University of Stockholm
Stockholm, Sweden

Dear Dr. Claes:

I understand copies of the article "Evaluation of Genetic Risks of Environmental Chemicals", published by Ambio, are available through your office and would appreciate receiving a copy.

Thank you for your consideration given this request.

Sincerely,

W. B. Papageorge
Manager
Product Acceptability

WBP/bt

DSW 173811

STLCOPCB4048332

July 3, 1973

Dr. Thomas Altpeter
North Star Research and
Development Institute
3100 Thirty-Eighth Avenue
Minneapolis, Minnesota 55406

Dear Dr. Altpeter:

I have received your request for samples of Aroclor 1016, Aroclor 1221, Aroclor 1242 and Aroclor 1254 and am forwarding these samples to you under separate cover. I regret I cannot supply samples of PCTs as Monsanto has discontinued the manufacture of these products due to environmental considerations. 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
Product Acceptability

WBP/bt

A-1016
1221
1242
1254
} 1709

DSW 173812

443

STLCOPCB4048333

July 3, 1973

Mr. G. E. Hughes
The Boeing Company
Mail Stop 73-09
P. O. Box 3707
Seattle, Washington 98124

Dear Mr. Hughes:

In response to Mr. R. L. Ryan's mailgram of June 17 to our San Francisco office it is our best scientific opinion that the materials listed by the Occupational Safety and Health Administration on page 10929 of the Federal Register, Volume 38, No. 85 dated May 3, 1973 are not present in the MCS 352 Skydrol, which your company purchases from Monsanto, in concentrations of 1% or more. However, you may wish to make your own independent assessment of our product.

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

Sincerely,

W. B. Papageorge
Manager
Product Acceptability

WBP/bt

bcc: R. E. Hatton

DSW 173813

W. B. Papageorge - General Offices, B2NA

July 3, 1973 E. K. Brakebill - B2SJ

PRODUCT SPECIFICATIONS

Mr. John Newton
5040 - Brussels

Enclosed are copies of current sales specifications on the following products that you requested from E. K. Brakebill.

ACL	All Grades
CYA	All Grades
Dequest	All Grades
EMA	All Grades
Lampblack	All Grades
Mould Coat	
PhosChek P/30	
Santocel	All Grades

W. B. Papageorge

/bt

Enclosures

DSW 173814

1441

STLCOPCB4048335

W. B. Papageorge - General Offices, B2NA

July 3, 1973 E. L. Moore - B2SJ

EXCEPTION REPORTS
DISTRIBUTION LIST

Mr. D. C. Dieterich
1150 - Camden

Attached is a copy of the Exception Report distribution list to which E. L. Moore referred in his memo to you on June 29.

W. B. Papageorge

/bt

Attachment

DSW 173815

STLCOPCB4048336

W. B. Papageorge - General Offices, B2NA

July 2, 1973

DEQUEST 2000 - KURITA

Memo, TI to TMK, 6/20/73

C. S. Alack - B2SB
E. K. Brakebill - B2SJ
R. D. Hogue - N1A
T. M. King - B2SG

Mr. T. Ishijima
5260

Below are suggested responses to the questions listed in the referenced memorandum:

1. Impurities Analyses

Iron	< 35 ppm
Chlorides (Cl)	< 1 %
Arsenic	< 0.2 ppm
Cadmium	< 10 ppm
Mercury	< 0.5 ppm
Zinc	< 10 ppm
Nickel	< 10 ppm
Manganese	< 1 ppm
PCB	None Detectable
Organic Phosphorus	14-15% (as phosphonic acids)

Analyses for Sulfuric Radicals, Heavy Metals (as Pb), Chrome, Copper, Cyanide and Boron have not been made, therefore, no information is available.

2. I have enclosed a copy of the product specification.

3. Waste Liquid Treatment

   a. To remove acidity, neutralize with base, e.g., NaOH, KOH, Na_2CO_3, etc.

   b. To destroy phosphonic acid, oxidize with chlorine or hypochlorite to orthophosphate

   c. To remove phosphonic acid, use typical lime precipitation method

   d. To remove phosphonic acid, use anion exchange resin

Regards.

W. B. Papageorge

DSW 173816

/bt

4.34

STLCOPCB4048337

July 2, 1973

Mr. David Bill
Chief Metallurgist
Chevrolet Motor Division
General Motors Corporation
1000 East Delavan Avenue
Buffalo, New York 14240

Dear Mr. Bill:

Monsanto's Mr. Paul Craska has informed me of your request for Aroclor samples. Enclosed is a sample request form. If you will return the completed form to me I will make arrangements to have the samples you request forwarded to you.

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

Sincerely,

W. B. Papageorge
Manager
Product Acceptability

WBP/bt

Enclosure

DSW 173817

11 2 5

STLCOPCB4048338

W. B. Papageorge - General Offices, B2NA

July 2, 1973

EKA-31 --
POLAROID CORPORATION

E. K. Brakebill - B2SJ
Shengen Hu - N1A
T. G. Iversen - 1690
J. J. McClellan - 1890
E. L. Moore - B2SJ
M. H. Ponder - 1690

Mr. C. S. Alack
B2SB

Attached is a copy of Mr. E. C. Page's response to my letter dated June 8 on this subject. You will note that he is very insistent on including a Moisture specification by CEC solids moisture analyzer and retaining the Total Volatiles specification.

I would appreciate receiving comments from all recipients of this memo.

W. B. Papageorge

/bt

Enclosure

DSW 173818

STLCOPCB4048339

W. B. Papageorge - General Offices, B2NA

July 2, 1973

DISTRIBUTION OF MICC
PRODUCT ACCEPTABILITY PRACTICES

Mr. J. S. Metcalf
B1NC

Please make the following additions to your list of individuals to receive copies of the MICC Product Acceptability Practices:

S. Abbott	- 1760	G. L. Jessee	- 1060
W. T. Anderson	- 1890	D. J. Kelley	- 1410
J. T. Bell	- 1060	W. W. Klemme	- 1200
E. N. Brasfield	- 1200	L. C. Lahman	- 1060
R. V. Butz	- 1890	R. Lindeman	- 1670
E. Campbell	- 1740	J. Lockhart	- 1670
Q. M. Capocefalo	- 1670	G. Lunsford	- 1890
T. Christian	- 1560	T. Lyons	- 1890
H. W. Collier	- 1200	M. B. Mullally	- 1060
J. DiTommaso	- 1410	J. F. Murphy	- 1410
O. E. Dolin	- 1670	I. A. Newcomer	- 1410
L. E. Frank	- 1560	J. S. Palermo	- 1410
L. A. Furrer	- 1560	J. L. Rasmussen	- 1890
R. A. Geisman	- 1760	F. M. Regula	- 1740
J. S. Gillies	- 1760	B. Severson	- 1060
J. K. Grant	- 1740	M. J. Smid	- 1760
S. Hedges	- 1560	J. C. Smith	- 1740
H. J. Horner	- 1740	A. Thompson	- 1410

W. B. Papageorge

/bt

DSW 173819

STLCOPCB4048340

July 2, 1973

Treasury Department
District Director of Customs
514 U.S. Court & Custom House
1114 Market Street
St. Louis, Missouri 63101

Dear Sir:

I am planning a trip abroad early next month and would appreciate receiving recent issues of your booklets "Customs Hints for Returning U.S. Residents" and "Rates of Duty for Popular Tourist Items" along with any other booklets which you feel would be helpful to overseas travelers.

Thank you in advance for your consideration of this request.

Sincerely,

W. B. Papageorge
Manager
Product Acceptability

WBP/bt

DSW 173820

STLCOPCB4048341

July 2, 1973

Mr. Glen O. Hassell
ARCO Chemical Company
P. O. Box 2819
Dallas, Texas 75221

Your letter of June 26 addressed to Monsanto's Houston sales office requesting Material Safety Data Sheets for Dequest 2000 and Dequest 2006 has been forwarded to me for response. Enclosed are the requested copies of these data sheets.

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

Sincerely,

W. B. Papageorge
Manager
Product Acceptability

WBP/bt

Enclosures

bcc: C. S. Alack - B2SJ
E. K. Brakebill - B2SJ

DSW 173821

STLCOPCB4048342

W. B. Papageorge - General Offices, B2NA

July 2, 1973

TANK CARS --
PCB SERVICE

H. S. Bergen - B2SL
W. R. Corey - B2SL
A. E. Leisy - 1740
J. R. Savage - B2SL

Mr. E. M. Potter
B2NK

What procedures do we follow to assure beyond any doubt that the tank cars we have assigned to PCB service are not used to haul any other material by Monsanto, our customers, or anyone else?

W. B. Papageorge

/bt

DSW 173822