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CURRICULUM VITAE OF DAVID WOOD

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NAME: David Wood

NATIONALITY: British

PLACE OF BIRTH: Stamford, Great Britain

DATE OF BIRTH: August 2, 1939

ADDRESS: Av. Washington Luis 2500, Casa 9
04662 São Paulo Brazil

EDUCATION: St. Martin's Elementary School, Stamford
Great Britain - 1944 to 1949

Stamford School, Stamford, Great Britain - 1949 to 1957

Trinity College, Cambridge University, Cambridge,
Great Britain - 1957 to 1960, B.A. Honours Chemistry
and Part II Law Tripos

PROFESSIONAL
ACTIVITIES

Assistant Technical Salesman, Engineering Chemicals
Group, Monsanto Chemicals Ltd., London, Great Britain -
May 1, 1961 to June 30, 1966

Sales Supervisor, Dielectric Fluids, Monsanto Europe S.A.,
Brussels, Belgium - July 1, 1966 to October 31, 1966

Product Supervisor, Dielectric Fluids, Monsanto Europe S.A.,
Brussels, Belgium - November 1, 1966 to January 6, 1968

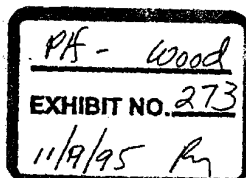
Market Supervisor, Food and Fine Chemicals, Monsanto
Europe S.A., Brussels, Belgium - January 7, 1968 to
January 4, 1972

Product Manager, Fine Chemicals, Monsanto Europe S.A.,
Brussels, Belgium - January 5, 1972 to February 20, 1974

International Market Manager, Fluids Functional Products,
Monsanto Company, St. Louis, Missouri, U.S.A. -
February 21, 1974 to March 31, 1975

Market Manager, Dielectric, MIC Specialty Chemicals,
Monsanto Company, St. Louis, Missouri, U.S.A. -
April 1, 1975 to December 31, 1975

Industry Manager, Dielectric, MIC Specialty Chemicals,
Monsanto Company, St. Louis, Missouri, U.S.A. -
January 1, 1976 to December 31, 1977



Market Manager, Heat Transfer and Process Chemicals,
MTC Specialty Chemicals, Monsanto Company, St. Louis,
Missouri, U.S.A. - January 1, 1978 to December 31, 1979

LAST JOB

Manager, Raw Materials Purchases, EM&M, Corporate
Purchasing, Monsanto company, St. Louis, Missouri,
U.S.A. - January 1, 1980 to April 30, 1982

ACTUAL JOB

Director, Chemicals & Plastics, Industrias Monsanto S.A.,
São Paulo, Brazil - May 1, 1982

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cc: Mr. D.S. Cameron - ME

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TELEGRAM: HENRIS

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STOCKHOLM VA November 28, 1966
SVEAVÄGEN 47

Monsanto Europe
BRUSSELS 3
Belgium

For the attention of Mr. D. WOOD

Dear David,

re: AROCLORS

As mentioned, there has been some publicity in Sweden concerning investigations made at the Institution for Analytical Chemistry at the Stockholm University. These have revealed that a group of products called Polychlorinated Bi-Phenols - PCB for short - accumulated in certain organs of animals. They are said to be related to DDT and equally poisonous.

The findings were discussed at a meeting of scientists at the Wenner-Gren Centre in Stockholm on November 22. Below please find a translation of an article in the Swedish daily paper "Dagens Nyheter":-

"It is found in salmon and in pike. It is found in sea eagle living on fish. It is found on the surface of the needles of the fir trees, that is in the air. It is found in the hair of a five months baby...."

The scientists working with biocides have for a long time seen this something as unknown "peaks" on their gas chromatographs and at a meeting at the Wenner-Gren Center, Research Assistant Sören Jensen of the Institution for Analytical Chemistry at the Stockholm University could reveal the identity of these peaks. It has been found that they consist of a group of poisons, Polychlorinated Biphenols (for short PCB) which are closely related to, and equally poisonous as, DDT.

PCB is broken down considerably slower than DDT and gives rise to damage of liver and skin. PCB is not

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used as a herbicide. It is not manufactured in Sweden but is supposed to be used by the industry to quite some extent. No special industry can so far be accused of being the source of contamination.

Research Asst. S. Jensen has tested 200 fishes and a number of birds. He has taken several samples of air and has reached the conclusion that PCB is equally common in Nature as chlorinated hydrocarbons of the type of DDT, DDE, and Lindane. Even fish in Laddjojaure in Lapland contain PCB. Mr. Jensen has also found that PCB does not appear in animals living on a vegetarian diet, such as the elk.

In the course of his work, Mr. Jensen has not found anything indicating that the source of contamination comes from agricultural additives. It is, however, obvious already now that PCB is most frequently found in organisms living in water or feeding from water animals. In all examined pikes PCB was found. In a sea eagle found dead outside Stockholm it was found that the liver contained 30 mg of mercury per kilo, 76 mg DDT and considerably more PCB. The exact figure has not yet been determined.

PCB is found in water and in air, and not only in the Swedish air, but also in e.g. London air. Mr. Jensen has not yet been in London for sampling but could identify the poison by studying a gas chromatogram of air published in a British technical journal.

Mr. Jensen has also examined the hair of his family and himself and has found PCB on all samples. Most PCB was found in the hair of his wife but most sensational was that the girl aged 5 months had more PCB in her hair than her brothers and sisters of 3 and 6 years. Probably the girl had got the poison via the mother's milk.

In the State Museum Mr. Jensen has examined the whole collection of sea eagles dating back to 1880. By testing it could be established that PCB was present only in birds from 1944 and thereafter while birds collected before 1944 were quite free from PCB.

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The use of PCB in Sweden is not established in detail. According to American sources these types of products are used in the manufacture of a variety of heat-resistant materials. They are used for electrical insulation, for fire-proof heat transport in hydraulic oils, in lubricating oils used at high

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temperature and pressure, in paints and as pigments in various plastics. PCB is not imported only as such. It is also part of several finished products. Nothing is known as to the way in which it reaches the water and the air. According to Mr. Jensen, products containing PCB should have this openly declared.

PCB is equally harmful whether absorbed via the skin, through the food, or by inhalation. In contact with the skin it can cause oedema. For DDT the highest permissible concentration in the air has been set at 0.5 - 1 mg/cu.metre. For PCB it has been mentioned to be 0.5 mg/cu.metre. Mr. Jensen will now try to get more complete analytical material. He hopes eventually to be able to disclose the source of the contamination and will also increase his cooperation with toxicologists and geneologists."

Another daily paper, Svenska Dagbladet, has a similar article. Here it is mentioned that Mr. Jensen, working under Laborator (Professor) Gunnar Widmark, has disclosed facts which will have far-reaching importance since the findings have proved a new source of pollution of the nature.

One of the participants at the meeting was Dr. A.V. Holden of Scotland, scientific contact man between the twelve O.E.C.D. countries, who has established coordinated analysis of chemicals used and found in nature.

I suppose there is no doubt that what has been termed Polychlorinated Biphenyls is equal to Aroclor. There is also no doubt that the published facts will cause considerable unrest in several quarters. We probably will have to have Aroclor registered with the Swedish Board of Poisonous Substances and the industry will have to be particularly careful in handling the material. The problem in some cases of course may be the disposal of used material. I understand that there hardly exists a convenient method of destroying Aroclor and that possibly burying unuseable material may be the only answer.

We shall be glad to hear from you soon.

Yours sincerely,

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