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Studies

1. Environmental
2. Articulability 1254 from Paint Surface
3. Solubility in Water -
4. Biodegradation
5. Proprietary Factors

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Methodology

1. Water, Soil, Tissue
2. FOM 402 Business

③ Forward Program

1. Methodology - Proprietary Factors, Prop. GC Lts
2. Environmental Releases
3. Biological Toxicity - Residue Levels
4. Biodegradability

Determine Solubility
Calibration isomers }

Background - 1 yr. ago - Skeletal report PCBs found
in the environment
Visited Workers on farms in Europe & UK
Returned to US with objectives

Objectives - obtain independent data to answer the
PCB ^{concern} - universality of slow end point
the problem in food

Adviser - develop expertise & methodology needed
to identify PCBs & measure PCBs in
environmental media

Solus - methodology is in hand in our own company
which is applicable to the objectives of

decreases
2 4.4'
3 2.52'
4 2.42'
3.2 2.32'
2.5 2.54'
2.4 3.54'
2.4 2.34'
2.5
3.1'

water
Soil/sediment
Tissue / Fat
Milk
Eggs

Principle - Separation GC / Mass

Limitations - general necessary
- method development needed

Environmental Linkup -

off-shore

Water on sediment - 9 US Rivers } 42 60%
1 UK " } calibration
Lake Michigan } PCBs

Fish - Lake Michigan
2 Midwest Rivers

Human Fat - 1
Milk - Maryland & Ohio
dairy factory

57% delaminated
& plugs

- Solubility PCBs in water - 1242 - 5000 1248-100 1249-20
- Extractability from water surface - 400 PCBs - 5 weeks 25°C 10%
Summary - Method PCBs by Gas Chromatography and Mass Spectrometry

A method - PCBs do exist in the environment
- PCBs are not as mobile as other pollutants
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Continuing Program - Development of methodology - general
specificity & accuracy
more data for environmental