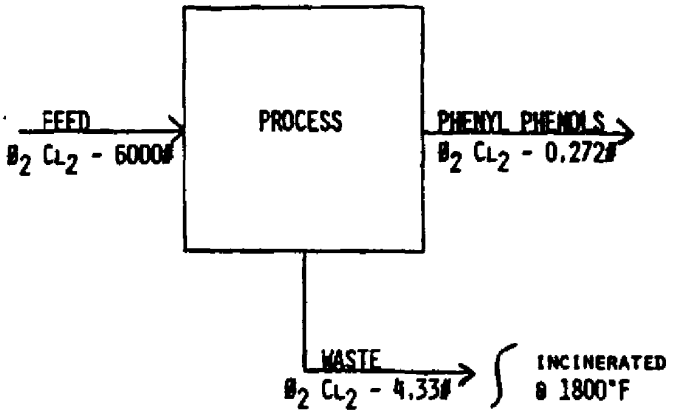
FIG. 2

DISTRIBUTION OF DICHLOROBIPHENYL

BASIS: 1,000,000# FEED, MONSANTO "LOT 1"




MONS 021621

# TABLE XIX

## MONOCHLOROBIPHENYL

(As Supplied by Monsanto)

| | Present Agreed Spec. | Present Product | Proposed Spec. | Estimated Composition |
|---|---|---|---|---|
| Biphenyl | 0.6% max. | ~0.5% | 0.6% max. | ~0.5% |
| O-chlorobiphenyl | 80% min. | 87-91 | 75% min. | ~ 78 |
| m- - | 4% max. | 3-3.5 | 5.5% max. | ~ 5 |
| p- - | △ | 6-8 | 14% min. | ~ 15 |
| Dichloro + | 1% max. | ~0.6 | 1.3% max. | ~ 1 |

# TABLE XVIII

## BIO CONCENTRATION OF DICHLOROBIPHENYLS

ASSUMPTIONS:

1. LARGEST CUSTOMER OF OPP USE 3,000,000 LBS./YR.

2. ALL DICHLOROBIPHENYL IN OPP (0.2 PPM) FINDS ITS WAY TO A RIVER THE APPROXIMATE SIZE OF THE TITABAWASSEE.

3. BIO CONCENTRATION FACTOR FROM WATER TO FISH = 100,000.

BASED ON THESE ASSUMPTIONS, DICHLOROBIPHENYL BIO CONCENTRATION IN FISH WILL BE:

0.012 PPM

# TABLE XVII

## ANALYSIS OF DOW PARA-PHENYLPHENOL

### SAMPLE A

META-PHENYLPHENOL - 3%

2-CHLOROBIPHENYL - 0.26 PPM (1)

3-CHLOROBIPHENYL
4-CHLOROBIPHENYL - <0.1 PPM (1)

2,2'-DICHLOROBIPHENYL - <0.05 PPM (1)

2,4'-DICHLOROBIPHENYL - <0.01 PPM (1)

4,4'-DICHLOROBIPHENYL - <0.05 PPM (1)

TOTAL CHLORINE - 0.44 PPM (2)

TOTAL SODIUM - 0.32 PPM (3)

(1) DETERMINED BY GLC WITH ELECTRON CAPTURE

(2) DETERMINED BY NEUTRON ACTIVATION: PRECISION = ±0.05 PPM

(3) DETERMINED BY NEUTRON ACTIVATION: PRECISION = ±0.1 PPM

MONS 021624

meeting with medical
on 11/13/73

TABLE XVI

DOW TENTATIVE SPEC.

(INTERNAL MFG. - O-PP/P-PP)

| | |
|---|---|
| Monochlorobiphenyl | : 10 ppm |
| Dichloro - | : 2 ppm |
| Trichloro - | : 0.1 ppm |
| Higher Chloro - | : 0.1 ppm |

(1) G.L.C./E.C.D.

(2) For M.I.C.C. Dichloro max. of 1-1.3%