

Monsanto

SEP 30 1974

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J. Coleman Weber, General Offices, B3SC

September 27, 1974

SUBJECT: CHLOROPHENOLS
TOXIC BY-PRODUCTS

TO: E. E. Hendrikse, B3SC

cc: L. G. Scharpf, N1A
D. P. Roman, N1A
P. L. Wright, A2SA
H. J. Horner, Krummrich, 1740
S. H. Vogel, Krummrich, 1740
D. K. Lynch, Krummrich, 1740

T+10

Attached is Jim Mieure's memo of September 26, 1974, on the analysis for 2, 3, 7, 8 Tetrachlorodibenzo-p-Dioxin (TCDD) of seven samples from the Chlorophenol process.

The results indicate a potential problem with the Still Residue but not with the refined products or the fraction feed for Penta (Dept. 236). The suggestion was made to run a biological test on the Still Residue. It may also be beneficial to run biological tests on the other samples. I will discuss this with Paul Wright in Medical, Dan Roman and Lou Scharpf, and decide what should be the next step.

I will also touch base with Bill Papageorge since he is concerned about the safety of Penta.

Until we have more data, I recommend that we do not take any action on WGK's proposed investigation submitted in August.

J. Coleman Weber

JCW:slv

Enclosures

Confidential Subject to
Protective Order

C01096

CHLOROPHENOLS
DEPT. 237 - W GK

SAMPLE IDENTIFICATION
JIM MIEURE'S MEMO 9/26/74

1. Still Residue from Dept. 237

2. Fractions for feed to Dept. 236 (Penta)

3. Chlorinated Batch (#G32) Department 237 sampled right after completion of chlorination step.

4. Refined Para Chlorophenol Lot No. KD 5083 (7/11/74)

5. Refined Para Chlorophenol Lot No. KC 5118 (12/4/73)

6. 2,4 - Dichlorophenol Lot No. KD 1003 (3/15/74)

7. 2,4 - Dichlorophenol Lot No. KC 81011 (Tank Car GATX 60233-8/24/73)

RECEIVED ORDER

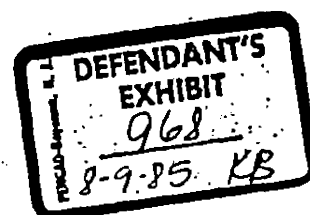
SANTOPHEN

PRE-1979

<u>Description</u>	<u>Date</u>	<u>TCDD Level-ppb</u>	<u>Source Document</u>
Santophen Samples	4/74	ND	Deft's 945
KE-03-15	3/75	ND	Plff's 1111
KE-08-41	8/75	ND	Plff's 1111
KI-02-44	2/8/77	ND	Deft's 878
KI-04-79	4/10/77	ND	Deft's 878
KI-04-83	4/15/77	ND	Deft's 878
KI-04-84	4/16/77	ND	Deft's 878
KI-05-94	5/1/77	ND	Deft's 878
KI-05-104	5/27/77	ND	Deft's 878
KI-06-109	6/4/77	ND ND	Deft's 878
KI-06-124	6/20/77	ND	Deft's 878
KI-06-124	6/20/77	48	'79 ANALYSIS - Plff's 1135 and 1138
KI-07-155	7/22/77	ND	Deft's 878
KI-07-159	7/25/77	ND	Deft's 878
6 Production Lots	2/77 to 7/77	ND	Plff's 1122
KK-08-107	8/78	14.2(0.5)*	Plff's 1285; Deft's 877
KK-08-117	8/78	26.1 (ND)*	Plff's 1285; Deft's 877
KK-09-127	9/78	10.5 (0.5)*	Plff's 1285; Deft's 877
KK-09-139	9/78	38.6 (ND)*	Plff's 1285; Deft's 877
KK-10-151	10/78	33.2 (1.4)*	Plff's 1285; Deft's 877
KK-11-169	11/78	24.3 (ND)*	Plff's 1285; Deft's 877
KK-11-182	11/78	18.6 (1.2)*	Plff's 1285; Deft's 877
KK-12-191	12/78	6.0 (2.2)*	Plff's 1285; Deft's 877
KK-12-201	12/78	10.3 (2.9)*	Plff's 1285; Deft's 877

() * = Number of total ppb of TCDD co-eluting with
2,3,7,8 TCDD standard.

ND = None detected at current level of detection
or at level of interference.



SANTOPHEN

1979

<u>Description</u>	<u>Date</u>	<u>TCDD Level-ppb</u>	<u>Source Document</u>
KL-01-06 - with caustic	1/79	33 (ND)*	Plff's 1135 and 1148
KL-01-06	1/79	4 (2.3)*	Plff's 1285
KL-01-14	1/30/79	9.1 (7.1)*	Plff's 1285
KL-02-25	2/79	1.5 (0.5)*	Plff's 1285
KL-03-43 - without caustic	3/2/79	20 (ND)*	Plff's 1135 and 1148
KL-03-43 - Tauli method	3/2/79	12 (ND)*	Plff's 1285
KL-03-67	3/30/79	2.8 (1.8)*	Plff's 1285
KL-04-69	4/79	2.0 (2.0 ± 1.1)*	Plff's 1285
KL-04-74	4/13/79	10.5 (4.0)*	Plff's 1285
KL-04-82	4/29/79	0.5 (0.5)*	Plff's 1285
not product - MB-739	5/7/79	26	Plff's 1131 and 1135
MB-740	5/7/79	6	Plff's 1131 and 1135
not product - MB-741	5/7/79	36 (ND)*	Plff's 1131 and 1135
KL-05-90	5/16/79	1.7 (1.2)*	Plff's 1285
KL-05-103	5/79	ND	Plff's 1131 and 1285
KL-05-104	5/31/79	2.7 (2.2)*	Plff's 1285
KL-06-110	6/79	ND	Plff's 1131
KL-06-113	6/79	ND	Plff's 1131
KL-06-114	6/79	1.1 (1.1)*	Plff's 1285
KL-06-120	6/79	ND	Plff's 1131
KL-06-121	6/79	ND	Plff's 1131 and 1285
KL-06-123	6/79	2.2 (1.7)*	Plff's 1285
KL-07-129	7/79	2.9 (ND)*	Plff's 1285
KL-07-130	7/79	1.2 (ND)*	Plff's 1285
KL-07-134	7/79	0.8 (ND)*	Plff's 1285
KL-07-135	7/79	1.6 (ND)*	Plff's 1285
KL-08-153	8/79	ND	Plff's 1285
KL-08-159	8/79	2.8 (0.8)*	Plff's 1285
KL-09-161	9/79	ND	Deft's 877
KL-09-163	9/79	ND	Deft's 877
KL-10-184	10/79	(1)*	Deft's 877
KL-10-192	10/79	ND	Deft's 877
KL-11-204	11/79	ND	Deft's 877
KL-11-211	11/79	ND	Deft's 877

() * = Number of total ppb of TCDD co-eluting with 2,3,7,8 TCDD standard.

ND = None detected at current level of detection or at level of interference.

SANTOPHEN

1980

<u>Description</u>	<u>Date</u>	<u>TCDD Level-ppb</u>	<u>Source Document</u>
KM-02-35	2/80	ND	Deft's 877
KM-10-174	10/80	ND	Plff's 1173

ND = None detected at current level of detection
or at level of interference.

SANTOPHEN

1982

<u>Description</u>	<u>Date</u>	<u>TCDD Level-ppb</u>	<u>Source Document</u>
S-1 Molten	11/12/82	ND	Plff's 1377
75% S-1 Solution	11/12/82	ND	Plff's 1377

ND = None detected at current level of detection
or at level of interference.

SANTOPHEN

1983

<u>Description</u>	<u>Date</u>	<u>TCDD Level-ppb</u>	<u>Source Description</u>
Santophen 1	4/19/83	ND	Deft's 957

ND = None detected at current level of detection
or at level of interference.