

Monsanto

FROM Fred D. Hileman - ESC/Dayton Laboratory
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Ext. 211

DATE 11 December 1984

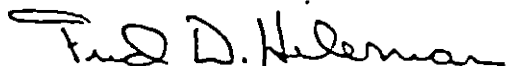
SUBJECT Corrections for Report #MDA-560

REFERENCE :

TO : J. F. Pysz - Q4C
R. F. Ivory - 1250
Central Files - 1250
Technical Reports Library - R2C

The results in Table 1 of Report No. MDA-560 were incorrect for sample #12.
A copy of the corrected results is attached.

Fred D. Hileman



FDH/bd

Attachment

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884

1. Hazard from exposure to higher chlorodibenzodioxins

- a. The Centers for Disease Control accepts 1 pg/(kg body mass)/day of 2,3,7,8-TCDD as an acceptable daily intake.

(R.D. Kimbrough, H. Falk, P. Stehr and G. Fries,
J. Tox. Env. Health, 1984, 14, 47-93)

- b. EPA is said to have accepted that amount as an Acceptable Average Daily Intake for calculating water-quality numbers.

- c. Other chlorodibenzodioxins are known to be less toxic in acute doses and to be less active in various biological effect tests than 2,3,7,8-TCDD.

(See summary prepared by A. Peter, attached.)

- d. In particular, octachlorodibenzodioxin and 1,2,3,4,6,7,9-heptachlorodibenzodioxin are found to be practically nontoxic.

(See summary.)

- e. Background intake of 2,3,7,8-TCDD approximates 1 pg/kg/d. Intake of higher chloro congeners is probably >5 pg/kg/d (by inference from body burden estimations).

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TABLE 1. ANALYSIS OF TETRACHLOROPHTHALIC ANHYDRIDE

<u>Sample</u>	<u>Cl₂</u>	<u>Cl₃</u>
Tetrathal #1	ND	ND
Tetrathal #2	ND	ND
Tetrathal #3	ND	ND
Tetrathal #4	ND	ND
Tetrathal #5	ND	ND
Tetrathal #5 (replicate)	ND	ND
Tetrathal #6	ND	ND
Tetrathal #7	ND	ND
Tetrathal #8	ND	ND
Tetrathal #9	ND	ND
Tetrathal #10	ND	ND
Tetrathal #11	ND	ND
Tetrathal #11 (replicate)	ND	ND
Tetrathal #12	ND	ND
Method Blank #1	ND	ND
Method Blank #2	ND	ND
Method Detection Limit	1	1
Spike Level	25	28
Tetrathal #1 (high spike)	7.7	14
Recovery %	31	50
Spike Level	2.6	28
Tetrathal #3 (low spike)	1.0	1.9
Recovery %	38	68
Spike Level	26	29
Tetrathal #8 (high spike)	16	17
Recovery %	62	59
Spike	2.5	2.8
Tetrathal #9 (low spike)	1.2	<22
Recovery %	48	-

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FOR POLYCHLORINATED DIBENZO-P-DIOXINS (PCDDs)

ng PCDDs/gm Sample (ppb)				
Cl ₄	Cl ₅	Cl ₆	Cl ₇	Cl ₈
ND	ND	9.7	77	190
ND	ND	ND	5.4	99
ND	ND	ND	5.1	27
ND	ND	4.6	25	57
ND	ND	ND	8.0	150
ND	ND	ND	4.4	74
ND	ND	1.3	9.0	530
ND	1.8	4.4	20	63
ND	ND	ND	6.8	390
ND	1.8	6.0	28	65
ND	16	82	210	87
ND	ND	4.5	35	110
ND	ND	5.5	39	130
1.5	14	43	110	250
ND	ND	ND	ND	ND
ND	ND	ND	ND	ND
1	1	1	1	1
20	24	23	25	20
11	13	24	101	250
55	54	62	-	-
2.1	2.5	2.4	2.6	2
1.5	1.6	2.4	8.3	29
71	64	100	-	-
21	25	24	26	21
17	19	23	38	790
81	76	96	120	-
2.0	2.4	2.3	2.5	2.0
1.5	3.9	9.8	41	87
75	88	165	-	-