



Transbas

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SECRET TO PROTECT THE IRREL.

4. "Dioxin" content.

A retrospective analysis of 15 lots, produced of 2,4-dichlorophenol between May and November, 1980, showed no detectable amount of tetrachlorodibenzodioxins in any of the samples. The analytical method ^{used} ~~was~~ capable of detecting ~~1 ng of~~ 1 ng of 2,3,7,8-tetrachlorodibenzodioxin per g of 2,4-dichlorophenol (1 ppb, or 0.001 ppm). The method included extraction ~~of~~ with petroleum ether of a solution of DCP in 1 N KOH, followed by fractionation on a basic alumina column and analysis by GC/MS. Recoveries of spiked 2,3,7,8-TCDD were in the range 78-103% in this series of experiments.

bcc

Jay Ortiz
Pat Arnold

9/26/78

Act information from Ed Layton for

John McPhillips:

2,4-Dichlorophenol per 88 Layton 4/28/81 - 93% to 97% 97%

2,4 DCP 93.8 $\pm$ 1.0 93.2 97.7

2,6 DCP 2.6 $\pm$ 0.9 2.5 3.0 per 88 Layton 4/28/81 1.0

p-Chlorophenol 0.6 $\pm$ 0.9 0.7 1.0

2,4,6-Trichlorophenol 2.1 $\pm$ 1.2 2.5 2.0 per 88 Layton 4/28/81 none

Phenol 0.1 $\pm$ 0.2 0.3 0.2

o-Chlorophenol 0.7 $\pm$ 0.6 0.8 0.1

Water 0.05 0.05

97% values based on 1 lot in 2 years
(only lot produced)

93% based on 60-70 lots - values
vary considerably but these
values are one (typical)