

Monsanto

XC: Giegunk
File-Summary
APR 29 1981

FROM: NAME-LOCATION-PHONE: Dolores M. Wentz, St. Louis N3A

DATE: April 28, 1981
SUBJECT: 2,4-DICHLOROPHENOL
TRANSBAS, INC.
REFERENCE: REW/DMW, 4/23/81
TO: R. E. Walters B2SF

cc: P. J. Arnall B3NJ
E. Layton 1740
J.R.G. Ortiz E2ND
R. C. Richardson B2SG
J. D. Wilson N3A



Here are the typicals and the ranges for all components of 0.1% and larger in 2,4-DCP that you requested.

2,4-Dichlorophenol	93.8% $\pm$ 1.0%
2,6-Dichlorophenol	2.6% $\pm$ 0.9%
p-Chlorophenol	0.6% $\pm$ 0.9%
2,4,6-Trichlorophenol	2.1% $\pm$ 1.2%
Phenol	0.1% $\pm$ 0.2%
o-Chlorophenol	0.7% $\pm$ 0.6%

Attached is Analytical Method 13,086 which outlines the Gas Liquid Chromatographic procedure for determination of assay of chlorophenols.

J. D. Wilson furnished this statement on "dioxin" content. A retrospective analysis of 15 lots of 2,4-Dichlorophenol produced between May and November 1980 showed no detectable amount of tetrachlorodibenzodioxin in any of the samples. The analytical method used was capable of detecting 1 ng of 2,3,7,8-Tetrachlorodibenzodioxin per g of 2,4-Dichlorophenol (1 ppb, or 0.001 ppm). The method included extraction 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 of 78-103% in this series of experiments.

If you need further information, let me know.

Dolores M. Wentz

Attachment

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SUBJECT TO PROTECTIVE ORDER.

C02150