

Several dioxin/dibenzofuran data submissions for 2,4-D and related pesticides were reviewed. Each manufacturer of the registered technical pesticide was requested to randomly select seven samples of the pesticide and to analyze by a GC/MS method capable of quantitation to specified concentration levels, or limits of quantitation (log), for each dioxin and dibenzofuran of toxicological interest. The resulting submissions were reviewed for compliance with the analytical chemistry requirements of the data call-in and for scientific validity.

Table 1 summarizes the findings for 2,4-D. Only 2,3,7,8-tetrachlorodibenzo-p-dioxin and 1,2,3,7,8-pentachlorodibenzo-p-dioxin were found at or above the EPA log's. Two of eight technical 2,4-D's contained 2,3,7,8-TCDD slightly above the 0.1 ppb log. Three of eight technical 2,4-D's contained 1,2,3,7,8-PCDD at concentrations greater than the 0.5 ppb log. None of the remaining thirteen chlorinated dibenzo-p-dioxins and dibenzofurans were found at or above the EPA log's in the technical 2,4-D. Data on the 2,4-DB and 2,4-DP acids and derivatives of all three acids are too limited at this time to be useful to the 2,4-D panel.