PP #6F1749 - Daconil (chlorothalonil; 2,4,5,6-tetrachloroisophthalonitrile) and its 4 hydroxy metabolite; proposal for a tolerance of 15 ppm in or on cherries (tart and sweet), and of 25 ppm in or on peaches

PP #6E1761 - IR-4 Regional Coordinator proposal for 5 ppm in papayas

FROM: David L. Ritter
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TO: J. Wilson, Product Manager 21 and Chemistry Branch

The toxicity of daconil has been defined for tolerance purposes. In her most recent review of rat slides submitted in support of PP #2F1230, 1/26/76, Dr. E. Long concluded that a no effect level was 60 ppm based systemic renal effects in chronic rat and dog feeding studies, and on a four month special feeding study in rats.

Two 2 year dog feeding studies, using levels up to 3% of the diet, and three 2 year rat feeding studies using levels up to 0.5% of the diet failed to reveal any carcinogenic potential; several strains of rats were used. Moreover two multigeneration reproduction studies were performed but failed to disclose adverse fetal anomalies.

Therefore, for the purpose of these tolerances, we conclude that daconil is not a carcinogen within the EPA definition of such.

Recommendation

CB considerations permitting, we recommend that the proposed tolerance of 15 ppm in cherries and of 25 ppm in peaches be established.

We likewise recommend that the IR-4 proposed tolerance of 5 ppm in papayas be established.

No letter of permission to refer to their data from Diamond Shamrock accompanies the package in our possession.