

US EPA ARCHIVE DOCUMENT

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Petitions Control Branch and
Division of Toxicological Evaluation

January 30, 1967

Pesticides Branch, Division of Food
Standards and Additives

AF 8-176

FAP #6H1946. Combined maximum residues of piperonyl butoxide and pyrethrins, from existing and proposed usages.

There are existing tolerances for residues resulting from other usages of piperonyl butoxide and pyrethrins on certain of the commodities which would be subject to treatment under the present proposed regulation.

For packaged commodities (including "fatty" foods) the maximum residues from the present proposed usage would be less than 1 ppm for piperonyl butoxide and less than 0.1 ppm for pyrethrins. Maximum residues from storage in treated multiwall paper bags (FAP #1455) would be about 7 ppm for piperonyl butoxide and 0.7 ppm for pyrethrins. Therefore, the combined residues would not exceed the tolerances of 10 and 1 ppm established under §121.1074 and 121.1075 for residues of piperonyl butoxide and pyrethrins in packaged foods.

We might mention that the expected residues from the present proposed use are appreciably lower than the proposed tolerances of 10 and 1 ppm for piperonyl butoxide and pyrethrins, for those commodities which are most likely to be packaged. (Flour is a special case and is discussed below). As we have shown, the proposed tolerances of 10 and 1 ppm are adequate to cover the total combined residues for piperonyl butoxide and pyrethrins respectively.

In the case of flour, a regulation providing for usage of piperonyl butoxide and pyrethrins in cereal grain mills and milled product storage areas has previously been established (§121.1074 and 121.1075). We have concluded (memo, G.J. Beusch, FAP #1455, 9/4/64) that the combined maximum residue in packaged flour is about 16 ppm piperonyl butoxide and 2 ppm pyrethrins resulting from a postharvest application to the grain, followed by treatment of the milling machinery and finally storage in treated multiwall paper bags. Therefore, the combined maximum residues in flour from all these usages would not exceed the tolerances of 20 ppm for piperonyl butoxide and 3 ppm for pyrethrins permitted under §120.127 and 120.128 for the grain, i.e. raw agricultural commodity. We should therefore, include the subsection in the proposed regulation to read "Where tolerances are

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established under sections 408 and 409 of the Act on both raw agricultural commodities and processed foods made therefrom, the total residues of piperonyl butoxide and pyrethrins in or on the processed food shall not be greater than that permitted by the higher of the two tolerances."

D. Duffy

DDuffy:dap
1/30/67

cc

DTR
SCI-R
SCI-OD
FSA/OD
FSA/PB -- FAP #6H1946
SCI(L.Johnson)
DFC(Jones)

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