

PESTICIDE BRANCH

March 23, 1960

Division of Pharmacology

Extension of the tolerance for 1-naphthyl N-methylcarbamate (Sevin).

PESTICIDE PETITION/NO. 236

Union Carbide Chemicals Co
New York N Y (AF 15-22)

The petitioner requests tolerances of 10 ppm Sevin in or on cucumbers and summer squash.

The pharmacology of this compound was discussed in our memo of February 16, 1959 (FP #193). In this memo we considered that the "no effect" level for rats and dogs was about 200 ppm Sevin.

The requested tolerance of 10 ppm Sevin on cucumbers and summer squash is safe. Since the "no effect" dosage levels in rats and dogs are approximately 200 ppm, this tolerance in all foods would allow a margin of safety of 20. However, based on the per capita food consumption estimate of the Department of Agriculture, the use of Sevin on all fruits and vegetables (they make up approximately 25% of the total human food as sold in the grocery store) would allow for a margin of safety of approximately 77. However, this increases considerably when allowance is made for the discarding of citrus rind and other roughage of fruits and vegetables.

CONCLUSION

The proposed tolerance of 10 ppm Sevin on cucumbers and summer squash will result in the margin of safety remaining greater than 100. Therefore, the establishment of a tolerance of 10 ppm on these crops will be safe.

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