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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF
PESTICIDES AND TOXIC SUBSTANCES

MAY 14 1986

MEMORANDUM

SUBJECT: Azinphos-methyl (Guthion) Registration Standard-
Addendum #1

FROM: Charles L. Trichilo, Chief
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TO: Amy Rispin
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and

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Attached is addendum #1 to Residue Chemistry chapter of the azinphos-methyl Registration Standard which was completed on 4/4/86. This addendum was produced in-house by R. Perfetti.

This addendum provides our comments on monitoring and total diet data received from the FDA in April, 1986.

This addendum contains no confidential information.

If you need additional information please advise.

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Subject File
Reading File
Azinphos-methyl Registration Standard File

Regulatory Incidents

FDA monitoring data for the period FY 1978 to 1985 is summarized in the attached Table 1. Of approximately 50,000 samples analyzed by FDA's district laboratories (ca. 6000 samples/year) there were 431 positive findings of residues of azinphos-methyl. Most values were below established tolerance levels. Analyses were performed using several of FDA's commonly used multi-residue monitoring procedures.

FDA's revised Total Diet Study reflecting the period from April 1982 to April, 1985 showed a total of 14 positive residue findings on apples (3 findings), peaches (5 findings), pears (5 findings) and plums (1 finding). These residues ranged from 0.001 ppm to 0.082 ppm which is well below the established 2.0 ppm tolerance level for these commodities. A multi-residue procedure was employed for these analyses.

TABLE 1: SUMMARY OF FDA MONITORING DATA FOR AZINPHOS-METHYL RESIDUES FOR THE PERIOD FY 1978 to 1985.

COMMODITY	NUMBER OF POSITIVE SAMPLES	RESIDUE RANGE (ppm)
APPLES	78	T to 0.6 1/
PEARS	62	T to 0.5
CHERRIES	12	T to 0.5
PEACHES	54	T to 1.5
KIWI FRUIT	56	T to 1.2 2/
BLUEBERRIES	6	T
RASPBERRIES	8	T
APRICOTS	12	T to 0.72
STRAWBERRIES	3	0.52 to 1.0
NECTARINES	10	T
CRANBERRIES	1	T
LEMONS	1	T
BLUEBERRIES	1	T
MARION BERRIES	2	0.2 and 0.5
TOMATOES	12	T to 1.0
PEAS	1	1.17
PEPPERS	28	T to 4.47
ARTICHOKES	1	6.22
SOYBEANS	1	T
FISH	57	T to 0.07
SOFT SHELL CLAMS	3	T
CORIANDER	1	1.09
WATER	1	T
GRAPEFRUIT JUICE	1	0.23
OTHER FRUIT PRODUCTS	12	T to 0.4
TOMATILLO	1	0.1
SATSUMAS	2	T to 0.84
CITRUS PULP	1	1.5
ALMOND HULLS	1	1.0
FRUIT BY PRODUCTS (i.e. pomace)	2	T and 0.4

1/ One value at 40 ppm.

2/ One value at 300 ppm.