



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

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OFFICE OF
PESTICIDES AND TOXIC SUBSTANCES

MEMORANDUM JUN 22 1982

TO: Donald Stubbs, Section Head
ERS/PCB/RD (TS-767)

THRU: Robert Jaeger, Section Head *OCR for RBJ 6/22/82*
Review Section #1
Toxicology Branch/HED (TS-769)

SUBJECT: Section 18, #82-WA-19, Dimethoate on Lentils in
Washington to control aphids and Lygus bugs.

Conclusion:

Toxicology Branch has no objection to the granting of the proposed Section 18 exemption for use of Dimethoate on Washington State Lentils.

Background:

Purpose - to control aphids and Lygus bugs on Lentils in eastern Washington.

Formulation - any registered formulation which has been cleared for food use.

Dosage - 1/4 to 1/2 lb. ai/peracre.

Rate - a maximum of 2 applications prior to harvest.

Total acreage to be treated - approx. 50,750.

Period of Application - 1982 growing season.

PHI - to be set by RCB.

Registered alternatives - malathion.

RCB has indicated (verbal comm. with E. Zager dated 6/17/82) that 2 ppm residue would be the maximum existing past treatment but that a feeding restriction is necessary for the lentil vines.

Lentils in this case may be expected to contain up to 2 ppm of residues; utilizing up to 0.1% more of the ADI; increasing the TMRC by 0.2%.

Other Considerations:

Extracted from the review of Dr. G. Ghali on PP #7E1949 dated 12/15/81.

1. A 10X SF is used on a human exposure study (ADI of 0.02 mg/kg.
2. An adequate MOS for teratogenicity exists.
3. Reproduction - mouse NOEL = 50 ppm.
4. Mutagenicity - positive in bacterial and mammalian systems RPAR published FR 42:176, 9/12/77.

Data Gaps:

1. A non rodent chronic feeding study.

1/5 DCR *hms* 6/22/82
Henry Spencer, Ph. D.
Review Section #1
Toxicology Branch/HED (TS-769)

hms 6/22/82

file last updated 6/17/82

ACCEPTABLE DAILY INTAKE DATA

Human	NOEL	S.F.	ADI	MPI
mg/kg	ppm		mg/kg/day	mg/day (60kg)
0.200	8.00	10	0.0200	1.2000

Published tolerances

CROP	Tolerance	Food Factor	mg/day (1.5kg)
Apples(2)	2.000	2.53	0.07590
Beans(9)	2.000	2.04	0.06120
Broccoli(19)	2.000	0.10	0.00307
Cabbage, sauerkraut(22)	2.000	0.74	0.02207
Cauliflower(27)	2.000	0.07	0.00215
Celery(23)	2.000	0.29	0.00658
Collards(37)	2.000	0.08	0.00245
Escarole/endive(56)	2.000	0.03	0.00090
Grapefruit(55)	2.000	0.99	0.02974
Kale(75)	2.000	0.03	0.00090
Lemons(62)	2.00	0.17	0.00521
Lettuce(34)	2.000	1.31	0.03924
Mustard Greens(99)	2.000	0.06	0.00184
Oranges(108)	2.000	2.17	0.06500
Pears(116)	2.000	0.26	0.00766
Peas(117)	2.000	0.69	0.02065
Peppers(120)	2.000	0.12	0.00368
Spinach(150)	2.000	0.05	0.00153
Swiss Chard(158)	2.000	0.03	0.00090
Tangerines(160)	2.000	0.03	0.00090
Tomatoes(163)	2.000	2.87	0.08624
Turnip Greens(166)	2.000	0.03	0.00090
Turnips(165)	2.000	0.05	0.00153
Grapes, inc raisins(36)	1.000	0.42	0.00736
Melons(92)	1.000	2.00	0.03005
Potatoes(127)	0.200	5.43	0.01628
Cottonseed (oil)(41)	0.100	0.15	0.0022
Pecans(116)	0.100	0.03	0.00005
Safflower(141)	0.100	0.03	0.00005
Sorghum(147)	0.100	0.03	0.00005
Corn, grain(38)	0.100	1.00	0.00150
Soybeans (oil)(148)	0.050	0.92	0.00069
Wheat(170)	0.040	10.36	0.00622
Eggs(54)	0.020	2.77	0.00083
Meat, inc poultry(69)	0.020	13.95	0.00415
Milk&Dairy Products(93)	0.002	23.52	0.00086

MPI	THRC	% ADI
1.2000 mg/day (60kg)	0.5106 mg/day (1.5kg)	42.06

unpublished, TOX Approved 7E1949

CROP	Tolerance	Food Factor	mg/day (1.5kg)
Cherries(30)	2.00	0.10	0.00307

PI TMC % ADI
1.2000 mg/day (60kg) 0.5150 mg/day (1.5kg) 42.81

Current Action Section 1a

CROP Tolerance Food Factor mg/day (1.5kg)
Lentils (33) 2.000 0.04 0.00123

PI TMC % ADI
1.2000 mg/day (60kg) 0.5150 mg/day (1.5kg) 42.92

permissible level for residues of dimethoate in or on cherries was requested by the Interregional Research Project No. 4 (IR-4).

EFFECTIVE DATE: Effective on April 14, 1982.

ADDRESS: Written objections may be submitted to the: Hearing Clerk (A-110), Environmental Protection Agency, Rm. 3708, 401 M St., SW., Washington, D.C. 20460.

FOR FURTHER INFORMATION CONTACT: Donald R. Stubbs, Emergency Response Section, Registration Division (TS-767C), Office of Pesticide Programs, Environmental Protection Agency, Rm. 716B, CM#2, 1921 Jefferson Davis Highway, Arlington, VA 22202, (703-557-7700).

SUPPLEMENTARY INFORMATION: EPA issued a notice in the Federal Register of March 11, 1982 (47 FR 10596) which announced that the Oregon State University Agricultural Experiment Station, Corvallis, OR 97331 had originally submitted pesticide petition number 7E1949 to EPA. Later the Interregional Research Project No. 4 (IR-4), New Jersey Agricultural Experiment Station, PO Box 231, Rutgers University, New Brunswick, NJ 08903, has assumed responsibility for this petition on behalf of the Agricultural Experiment Station of Oregon and the IR-4 Technical Committee. The petition requested that the Administrator, pursuant to section 408(e) of the Federal Food, Drug, and Cosmetic Act, amend 40 CFR 180.204 by establishing a tolerance for the combined residues of the insecticide dimethoate and its oxygen analog in or on the raw agricultural commodity cherries at 2.0 parts per million (ppm). Residue data to support the use on cherries are from tests conducted in Oregon.

No comments were received in response to this notice of proposed rulemaking.

The data submitted in the petition and all other relevant material have been evaluated and discussed in the notice of proposed rulemaking (47 FR 10596, March 11, 1982). It is concluded that establishment of this tolerance will protect the public health. Therefore, 40 CFR 180.204 is amended as set forth below.

Any person adversely affected by this regulation may, on or before May 14, 1982, file written objections with the Hearing Clerk, at the address given above. Such objections should be submitted in quintuplicate and specify the provisions of the regulation deemed objectionable and the grounds for the objections. If a hearing is requested, the objections must state the issues for the hearing and the grounds for the objections. A hearing will be granted if

the objections are supported by grounds legally sufficient to justify the relief sought.

The Office of Management and Budget has exempted this rule from the requirements of section 3 of Executive Order 12291. Effective on: April 14, 1982.

(Sec. 408(e), 68 Stat. 514 (21 U.S.C. 346a(e)))

List of Subjects in 40 CFR Part 180

Administrative practice and procedure, Agricultural commodities, Pesticides and pests.

Dated: April 5, 1982.

Edwin L. Johnson,
Director, Office of Pesticide Programs.

PART 180—TOLERANCES AND EXEMPTIONS FROM TOLERANCES FOR PESTICIDE CHEMICALS IN OR ON RAW AGRICULTURAL COMMODITIES

Therefore, 40 CFR 180.204 is revised to read as follows:

§ 180.204 Dimethoate including its oxygen analog; tolerances for residues.

Tolerances are established for total residues of the insecticide dimethoate (*O, O*-dimethyl *S*-(*N*-methylcarbamoylmethyl) phosphorodithioate) including its oxygen analog (*O, O*-dimethyl *S*-(*N*-methylcarbamoylmethyl) phosphorothioate) in or on the following raw agricultural commodities:

Commodities	Parts per million
Alfalfa	2
Apples	2
Beans, dry	2
Beans, lima	2
Beans, snap	2
Broccoli	2
Cabbage	2
Cattle, fat	0.02(N)
Cattle, mby	0.02(N)
Cattle, meat	0.02(N)
Cauliflower	2
Celery	2
Cherries	2
Collards	2
Corn, fodder	1
Corn, forage	1
Corn, grain	0.1(N)
Cottonseed	0.1
Eggs	0.02(N)
Endive (escarole)	2
Goats, fat	0.02(N)
Goats, mby	0.02(N)
Goats, meat	0.02(N)
Grapefruit	2
Grapes	1
Hogs, fat	0.02(N)
Hogs, mby	0.02(N)
Hogs, meat	0.02(N)
Horses, fat	0.02(N)
Horses, mby	0.02(N)
Horses, meat	0.02(N)
Kale	2
Lemons	2
Lettuce	2
Melons	1
Milk	0.002(N)
Mustard greens	2
Oranges	2
Pears	2
Peas	0.1
Pecans	2
Peppers	2
Potatoes	0.2
Poultry, fat	0.02(N)
Poultry, mby	0.02(N)
Poultry, meat	0.02(N)

40 CFR Part 180

[PH-FRL-2102-2; PP 7E1949/R429]

Tolerances and Exemptions From Tolerances for Pesticide Chemicals in or on Raw Agricultural Commodities; Dimethoate

AGENCY: Environmental Protection Agency (EPA).

ACTION: Final rule.

SUMMARY: This rule establishes a tolerance for the combined residues of the insecticide dimethoate and its oxygen analog in or on cherries. This regulation to establish a maximum

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Commodities	Parts per million
Safflower seed	0.1
Sheep, fat	0.0200
Sheep, mby	0.0200
Sheep, meat	0.0200
Sorghum, forage	0.2
Sorghum, grain	0.1
Soybeans	0.0500
Soybeans, forage	2
Soybeans, hay	2
Spinach	2
Swiss chard	2
Tangerines	2
Tomatoes	2
Turnips, roots	2
Turnips, tops	0.0400
Wheat, grain	2
Wheat, green fodder	2
Wheat, straw	2

[FR Doc. 82-10232 Filed 4-13-82; 8:46 am]
BILLING CODE 6560-60-M