

ev. 4/14/82

Toxicology Branch/HED Review

CASWELL FILE

NOV 22 1985

Caswell No(s):: 160

o: Hoyt Jamerson PM 43 TS-767

Registration No(s):: 264-316 (80%)

Pesticide Petition No(s):: SE 3292 IR-4 request from California

Chemical(s): Carbaryl (1-naphthylmethyl carbamate)
40 CFR 180.169

Requested Action(s): avocado at 10 ppm

Recommendation: Limit the tolerance Available Priority Data

" Support the proposed tolerance on avocado

Chemical(s) cleared 180.1001: Yes

of ADI occupied: Existing: 91.79 Resulting: 91.87

Resulting % increase in TMRC: 0.083

Data considered in setting the ADI: 2-year rat feeding - NOEL 300 ppm (10 mg/kg), rat reproduction
generation NOEL 300 mg/kg, mouse 18 mo carcinogenic NOEL 400 ppm (60 mg/kg), monkey (Chow) teratogenic
NOEL 20 mg/kg

Attached (?): ADI printout: YES/NO; TOX "one-liner": YES/NO; DER: YES/NO

Existing regulatory actions against registration: _____

PAR status: _____

How Data: _____

Data gaps: One year dog feeding and dog metabolism study

Comments: The limitations: PHI - one day, Do not make any more than 3 applications
during the growing season.

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11/21/85

file last updated 11/21/85

ACCEPTABLE DAILY INTAKE DATA

RAT, Older NOEL	S.F.	DI	MPI
mg/kg		mg/kg/day	mg/day/60kg
10.000 200.00	100	0.1000	6.0000

Published Tolerances

DRAFT

CROP	Tolerance	Food Factor	mg/day/1.5kg
Blackberries(15)	12.000	0.03	0.00540
Boysenberries(17)	12.000	0.03	0.00540
Collards(37)	12.000	0.08	0.01472
Dewberries(52)	12.000	0.03	0.00540
Beet greens(13)	12.000	0.03	0.00540
Kale(75)	12.000	0.03	0.00540
Loganberries(86)	12.000	0.03	0.00540
Mustard Greens(99)	12.000	0.06	0.01104
Parsley(110)	12.000	0.03	0.00540
Raspberries(135)	12.000	0.03	0.00540
Spinach(150)	12.000	0.05	0.00920
Swiss Chard(158)	12.000	0.03	0.00540
Turnip Greens(166)	12.000	0.03	0.00540
Apples(2)	10.000	2.53	0.37950
Apricots(3)	10.000	0.11	0.01686
Asparagus(5)	10.000	0.14	0.02146
Bananas(7)	10.000	1.42	0.21308
Beans(9)	10.000	2.04	0.30600
Blueberries(18)	10.000	0.03	0.00450
Broccoli(19)	10.000	0.10	0.01533
Brussel Sprouts(20)	10.000	0.03	0.00450
Cabbage, sauerkraut(22)	10.000	0.74	0.11037
Carrots(24)	10.000	0.48	0.07205
Cauliflower(27)	10.000	0.07	0.01073
Cherries(30)	10.000	0.10	0.01533
Chinese Cabbage(177)	10.000	0.03	0.00450
Citrus Fruits(33)	10.000	3.31	0.57179
Cranberries(44)	10.000	0.03	0.00450
Cucumbers, inc pickl(46)	10.000	0.73	0.10834
Eggplant(53)	10.000	0.03	0.00450
Escarole/endive(56)	10.000	0.03	0.00450
Grapes, inc raisins(66)	10.000	0.49	0.07358
Kohlrabi(76)	10.000	0.03	0.00450
Lettuce(84)	10.000	1.31	0.19622
Melons(92)	10.000	2.00	0.30046
Nectarines(100)	10.000	0.03	0.00450
Okra(103)	10.000	0.07	0.01073
Olives(104)	10.000	0.06	0.00920
Peaches(114)	10.000	0.90	0.13490
Pears(116)	10.000	0.26	0.03832
Peas(117)	10.000	0.59	0.10424
Peppers(120)	10.000	0.12	0.01840
Plums, inc prunes(125)	10.000	0.13	0.01993
Pumpkin, inc squash(131)	10.000	0.11	0.01686
Salisfy(142)	10.000	0.03	0.00450

Strawberries(152)	10.000	0.18	0.02759
Summer Squash(15)	10.000	0.03	0.00450
Potatoes(163)	10.000	2.37	0.43122
Corn, all types(38)	5.000	2.51	0.18825
Cottonseed (oil)(41)	5.000	0.15	0.01125
Beets(14)	5.000	0.17	0.01303
Horseradish(77)	5.000	0.03	0.00225
Poultry(128)	5.000	2.94	0.22575
Parsnips(111)	5.000	0.03	0.00225
Peanuts(115)	5.000	0.36	0.02683
Radishes(133)	5.000	0.03	0.00225
Rice(137)	5.000	0.55	0.04139
Rutabagas(139)	5.000	0.03	0.00225
Salisfy(142)	5.000	0.03	0.00225
Soybeans (oil)(148)	5.000	0.92	0.06386
Turnips(165)	5.000	0.05	0.00383
Almonds(1)	1.000	0.03	0.00045
Filberts(58)	1.000	0.03	0.00045
Pecans(118)	1.000	0.03	0.00045
Walnuts(167)	1.000	0.03	0.00045
Eggs(54)	0.500	2.77	0.02078
Sweet Potatoes(157)	0.200	0.40	0.00120
Chestnuts(153)	1.000	0.03	0.00045
Celery(23)	10.000	0.29	0.04292
Maple syrup(201)	0.500	0.03	0.00023
Lentils(83)	10.000	0.04	0.00613
Dandelion(194)	12.000	0. 3	0.00540
Wintersquash(171)	10.000	0.03	0.00450
Pistachio nuts(210)	1.000	0.03	0.00045
Wheat(170)	3.000	10.36	0.46633
Cattle(26)	0.100	7.18	0.01078
Goats(62)	0.100	0.03	0.00005
Hogs(69)	0.100	3.43	0.00515
Sheep(145)	0.100	0.19	0.00029
Horses(208)	0.100	0.03	0.00005
Kidney(203)	1.000	0.03	0.00045
Liver(211)	1.000	0.03	0.00045
Milk&Dairy Products(93)	0.300	28.62	0.12877
Sunflower(156)	1.000	0.03	0.00045
Millet(94)	3.000	0.03	0.00135
Flax Seed(182)	5.000	0.03	0.00225
Potatoes(127)	0.200	5.43	0.01628
<u>Prickly pear cactus</u> (214)	12.000	0.03	0.00540

HPI

THRC

% ADI

6.0000 mg/day/60kg

4.6688 mg/day/1.5kg

77.81

File last updated 11/21/85

ACCEPTABLE DAILY INTAKE DATA

DRAFT

RAT, Older NOEL	S.F.	ADI	MPI
mg/kg ppm		mg/kg/day	mg/day (60kg)
10.000 200.00	100	0.1000	6.0000

Unpublished, Tox Approved 6E1874, 1848, 2554, 2667, 8G1036, 5E3208, 5E3291

CROP	Tolerance	Food Factor	mg/day (1.5kg)
Rye (140)	3.000	0.03	0.00135
Oats (102)	3.000	0.36	0.01610
Barley (8)	3.000	0.03	0.00135
Potatoes (127)	9.800	5.43	0.79772
<u>Oysters</u> (214)	0.250	0.03	0.00011
<u>Pineapple</u> (123)	2.000	0.30	0.00889
Apples (2)	0.000	2.53	0.00000
Cranapples (42)	10.000	0.03	0.00450
Pears (116)	0.000	0.26	0.00000
Quinces (132)	10.000	0.03	0.00450
<u>rest of some fruits</u> (214)	10.000	0.03	0.00450

MPI	TMRC	% ADI
6.0000 mg/day (60kg)	0.8390 mg/day (1.5kg)	13.98

Current Action 5E3292

CROP	Tolerance	Food Factor	mg/day (1.5kg)
Avocados (6)	10.000	0.03	0.00450

MPI	TMRC	% ADI
6.0000 mg/day (60kg)	0.3435 mg/day (1.5kg)	14.06
