

US EPA ARCHIVE DOCUMENT

Aug. 4/14/82

Toxicology Branch/HED Review

Caswell No(s):: 160

To: Prof. Jameson P 2/ 4.3

Registration No(s):: 264-316

Pesticide Petition No(s):: 2E2712

Chemical(s): Carbaryl (1-naphthylmethylcarbamate) and its hydrolysis product 1-naphthol

Requested Action(s): 40 CFR 180.169 tolerance for residues of 12 ppm in or on psidium pear cactus

Recommendation: Establish the tolerance

Inert(s) cleared 180.1001: yes

% of ADI occupied: Existing: 91.35 Resulting: 91.44

Resulting % increase in TMRC: 0.0054 mg/kg/day

Data considered in setting the ADI: 2-year rat feeding - NOEL 200 ppm, 1-year dog feeding -

NOEL 400 ppm, rat reproduction 3 generation NOEL 200 mg/kg, mouse 18 month oncogenicity NOEL 400 ppm, Rhesus monkey teratology NOEL 20 mg/kg

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

Existing regulatory actions against registration: None

RPAR status: Returned to registration with Federal Register Notice 45 (24): 81869-81876, 1980

New Data: None

Data gaps: None

Comments: None

Reviewer: Kay Landolt Aug 4, 1982

Date: AUG 5 1982

File last updated 7/29/82

ACCEPTABLE DAILY INTAKE DATA

RAT, Older	NOEL	S.F.	ALI	HPI
mg/kg	ppm		mg/kg/day	mg/day/60kg
10.000	200.000	100	0.1000	6.000

Published Tolerances

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
Cowberries(52)	12.000	0.03	0.00540
Leaf 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	2.50	0.37950
Apricots(3)	10.000	0.11	0.01686
Asparagus(5)	10.000	0.14	0.02146
Bananas(7)	10.000	1.2	0.21308
Beans(9)	10.000	2.04	0.30600
Blueberries(16)	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	3.81	0.57179
Cranberries(44)	10.000	0.03	0.00450
Cucumbers, inc pickl(40)	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(60)	10.000	0.49	0.07358
Konrabi(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	0.7	0.01073
Olives(104)	10.000	0.06	0.00920
Peaches(114)	10.000	0.90	0.13490
Pears(110)	10.000	0.28	0.03832
Peas(117)	10.000	0.69	0.10424
Peppers(120)	10.000	0.12	0.01640
Plums, inc prunes(125)	10.000	0.10	0.01993
Pumpkin, inc squash(131)	10.000	0.11	0.01686
Salisfy(142)	10.000	0.03	0.00450
Sorghum(147)	10.000	0.03	0.00450

Strawberries (52)	10.000	0.18	0.02759
Summer Squash (155)	10.000	0.03	0.00450
Tomatoes (163)	10.000	2.87	0.43122
Corn, all types (36)	5.000	2.52	0.18932
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	0.22075
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	0.06880
Turnips (165)	5.000	0.05	0.00383
Almonds (1)	1.000	0.03	0.00045
Filberts (58)	1.000	0.02	0.00045
Pecans (116)	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 (28)	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	0.03	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	0.01070
Goats (62)	0.100	0.03	0.00005
Hogs (69)	0.100	3.43	0.00515
Sheep (145)	0.100	0.19	0.0029
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
Potatoes (127)	0.200	5.43	0.01628
Sunflower (156)	1.000	0.03	0.00045

MPI MRC % ADI
 0.0000 mg/day/60kg 4.6008 mg/day/1.5kg 77.60

unpublished, Tox Approved 621874, 1048, 8 1036, 1E2497, 2493, 2554, 2E2667

CROP	tolerance	Food Factor	mg/day/1.5kg
Rye (140)	3.000	0.03	0.00135
Oats (102)	3.000	0.35	0.01610
Barley (6)	3.000	0.03	0.00135
Millet (94)	3.000	0.03	0.00135
Flax Seed (182)	5.000	0.03	0.00225
<u>Oysters</u> (214)	0.250	0.03	0.00011
Potatoes (127)	3.000	5.43	0.79772

MPI MRC % ADI
 0.0000 mg/day/60kg 5.4611 mg/day/1.5kg 91.35

Current Action 2E2712

CROP	Tolerance	Food Factor	mg/day/1.5kg
<u>Prickly pear cactus</u> (214)	12.000	0.03	0.00540

	HPI	TNEC	% ADI
	3.0000 mg/day/60kg	5.4865 mg/day/1.5kg	91.44
