

12/23/82

GLYPHOSATE / TOX
Toxicology Branch/HED Review

9

511

To: Stuber / Housinger

Registration No(s): 524-308

Pesticide Petition No(s): 83-CA-11

Caswell No(s): 661A

Chemical(s): Glyphosate (Roundup)

RELEASABLE

RAC(s) - tolerance(s): 0.1 ppm on tomatoes 0.2 ppm secondary products
meat, poultry, eggs

Inert(s) cleared 180.1001: all cleared

% of ADI occupied: Existing: 24.20 22.28% Resulting: 24.2 22.28%
1.4522

Resulting % increase in TMRC: 22.28 mg/day (1.5 kg) = 0%
1.4520

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

Existing regulatory actions against registration: none

RPAR status: None

New Data: None

Data considered in setting the ADI: Reproduction study in rats has a
NOEL of 10 mg/kg/day, SE = 100
or 200 ppm

Data gaps: Chronic non rodent, second species carcinogenicity,
pubertal non rodent

Recommendation: Tomatoes are already Tox approved unpublished
0.1 ppm in fruiting vegetables. Roundup can be toxicologically
supported using 100,000 lbs/200,000 acres in California as control volunteer

Comments: untreated in ground application in preplant treatment of
processing tomato beds

Reviewer: Stephanie April

Section Head: William M. Butler 12/17/82

Date: 12/15/82

DEC 23 1982

12/17/82

File last updated 12/15/82

ACCEPTABLE DAILY INTAKE DATA

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

Published Tolerances

CROP	Tolerance	Food Factor	mg/day(1.5kg)
Grain Crops(64)	0.100	13.79	0.02069
Avocados(6)	0.200	0.03	0.00009
Citrus Fruits(33)	0.200	3.81	0.01144
Coffee(36)	1.000	0.75	0.01119
Grapes, inc raisins(66)	0.100	0.49	0.00074
Leafy Vegetables(80)	0.200	2.76	0.00828
Nuts(101)	0.200	0.10	0.00031
Pome Fruits(126)	0.200	2.79	0.00837
Root Crop Veg(138)	0.200	11.00	0.03299
Seed&Pod Veg(143)	0.200	3.66	0.01098
Palm Oil(202)	0.100	0.03	0.00005
Distilled(202)	0.100	0.03	0.00005
Oil(202)	0.100	0.03	0.00005
Oranges(7)	0.200	1.42	0.00426
Olives(104)	0.100	0.06	0.00009
Stone Fruits(151)	0.200	1.25	0.00374
Sugar,cane&beet(154)	2.000	3.64	0.10915
Molasses(96)	20.000	0.03	0.00920
Cranberries(44)	0.200	0.03	0.00009
Cottonseed (oil)(41)	15.000	0.15	0.03375
Kidney(203)	0.500	0.03	0.00023
Liver(211)	0.500	0.03	0.00023
Peanuts(115)	0.100	0.36	0.00054
Guava(184)	0.200	0.03	0.00009
Papayas(109)	0.200	0.03	0.00009
Mangoes(88)	0.200	0.03	0.00009
Soybeans (oil)(148)	6.000	0.92	0.08263
Pineapple(123)	0.100	0.30	0.00044

MPI	TMRC	% ADI
6.0000 mg/day (60kg)	0.3502 mg/day (1.5kg)	5.84

Unpublished, Tox Approved 9F2163, 2329, 1E2444, 9H5204, 2G2686, 1H5310

CROP	Tolerance	Food Factor	mg/day(1.5kg)
Cucurbits(49)	0.100	2.84	0.00426
Fruiting Vegetables(60)	0.100	2.99	0.00449
Small Fruit,berries(146)	0.100	0.83	0.00124
Hops(73)	0.100	0.03	0.00005
Fish,snellfish(59)	2.000	1.08	0.03250
Potable Water(198)	0.500	133.33	1.00000
Soybeans (oil)(148)	4.000	0.92	0.05509
Tea(162)	4.000	0.07	0.00429

MP I

TMRC

3 ADI

6.0000 mg/day(60kg) 1.4522 mg/day(1.5kg) 24.20

Current Action Section 18 [83-CA-11]

CROP	Tolerance	Food Factor	mg/day(1.5kg)
Tomatoes(163)	0.000	2.87	0.00000

MPI	TMRC	% ADI
6.0000 mg/day(60kg)	1.4522 mg/day(1.5kg)	24.20
