

US EPA ARCHIVE DOCUMENT

12/23/82

GLYPHOSATE / TOX  
Toxicology Branch/HED Review

9

511



RELEASABLE

To: Stulms / Housinger

Registration No(s):: 524-308

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

Caswell No(s):: 661A

Chemical(s): Glyphosate (Roundup)

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 Resulting: 24.2  
22.28% 22.28%

Resulting % increase in TMRC: 1.4522  
1.4520 22.71 mg/day (1.5 kg) = 0%

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,  
subchronic 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Recommendation: Tomatoes are already Tox approved unpublished  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: untreat in ground application in preplant treatment of  
processing tomato beds

Reviewer: Stephanie April

Section Head: William S. 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

*NOEL change  
not recorded*

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
Seeds&Pods Veg (143)	0.200	3.66	0.01098
Palm Oil (202)	0.100	0.33	0.00005
...	...	...	...
Bananas ( 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
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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

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

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