

US EPA ARCHIVE DOCUMENT

Glyphosate / Tox

2-21-86



REFERENCE DOSES (RFDs) FOR ORAL EXPOSURE

Chemical: Glyphosate

CAS #: 1071-83-6  
Caswell #: 661A

Carcinogenicity: Inadequate animal data for classification

Systemic Toxicity: See below.

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Endpoint	Experimental Doses	UF	MF	RFD
3-Generation Rat Reproduction Study Bio/dynamics #77-2063	10 mg/kg/day (NOEL)	100		0.1 mg/kg/day
Increased incidence of renal tubular dilation in F3b offspring.	30 mg/kg/day (LEL)			

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Endpoint and Experimental Doses:

Street, R.W., et al., 1981. A Three-Generation Reproduction Study in Rats with Glyphosphate. Bio/dynamics, Inc. Study #MSL-1724

Street, R.W., et al., 1982. Addendum to Pathology Report for a Three-Generation Reproduction Study with Rats. Bio/dynamics, Inc. Study #MSL-1724

Four groups of 12 males and 24 females were dietary concentrations of glyphosate that were adjusted so as to maintain treatment doses of 0, 3, 10 and 30 mg/kg/day. Treatment was for three generations, with two matings per generation. No effect of treatment on fertility was noted, nor were any systemic effects in adult rats apparent. An increase in the incidence of unilateral renal tubular dilation was noted in male pups from the F3b mating of the high dose (30 mg/kg/day) group.

Preparation Date: 2/21/86



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Confidence in the RfD:

Study: High

Data Base: High

RfD: High

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Documentation of RfD and Review:

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Agency RfD Review:

First Review: 3/11/86

Second Review:

Verification Date: 3/11/86

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