

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

DATE: October 29, 1976

SUBJECT: Carbaryl, 1-naphthyl methyl carbamate. 10 ppm tolerance on Lentils

FROM: Toxicologist
Toxicology Branch

TO: Ms. Patricia Critchlow
Special Registration Section

PP No.: 6G1781; 38560-EUP

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Conclusion: Grant temporary tolerance of carbaryl (10 ppm) on lentils, provided that assurance is obtained that data submitted by Union Carbide can be used for evaluation. Issue EUP, provided that an already registered formulation is used.

Review:

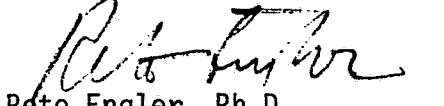
1. Previous Tolerances: Tolerances for Carbaryl are established under 180.169 in a large number (more than 50) of rac. (such as, 10 ppm on beans and peas, 5 ppm on cow peas, etc.)
2. Classification: Carbaryl is classified under V (undetermined) line 498 in CFR February 17, 1976.
3. Toxicity data:

No toxicity data were submitted with this petition. Data submitted with PP 902, and 1220 and other pertinent information on Carbaryl are listed below:

Oral LD ₅₀ (rat)	510 mg/kg (390-670)
<u>Teratology</u>	
Rat	375 mg/kg no teratological effect
Guinea pig	300 mg/kg ditto, toxic to mothers
Dog	3 mg/kg no effects, terata at higher levels
Rhesus monkey	20 mg/kg no terata

Rat 2-Year Feeding	NEL 400 ppm
Dog 1-Year Feeding	NEL 400 ppm
Mouse 18-Month/Oncogenicity	Negative 400 ppm
Mouse 18-Month/Oncogenicity	Negative 14 ppm ("Bionetic Study")
Rat 3-Generation Reproduction Study	NEL 200 mg/kg/day
"Mrak Report"	No oncogenic potential
Dominant Lethal (Rat)	Negative (200 mg/kg/day)

4. Human exposure: Since lentils are only a minor component of the human diet (estimated less than 0.01%) the exposure of humans to Carbaryl will increase only by a minute and insignificant amount, as a result of this tolerance.


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