



## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

AUG 1 8 1987

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MEMORANDUM

OFFICE OF
PESTICIDES AND TOXIC SUBSTANCES

SUBJECT:

Alachlor residue estimates for use in the Tolerance

Assessment System

FROM:

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THRU:

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TO:

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Attached are our most current residue estimates for total alachlor (sum of alachlor and its metabolites). estimates are updated from our most recent review (S. Hummel, 6/13/87). This update includes residue estimates from recently submitted residue and processing data for sorghum, sunflower seed, and cottonseed, currently in review in RCB (S. Hummel).

Current residue estimates are based on the maximum total alachlor residue found in field trials at the maximum typical application rate. None of the alachlor residue data have been completely validated, as discussed in our previous reviews (S. Hummel, 1/30/87, 6/13/87).

The maximum typical application rate for alachlor is 4 lb ai/A for most crops. Some crops have Section 3 or Section 24(c) application rates in excess of 4 lb ai/A, e.g. (corn, 8 lb ai/A on high organic soils; peanuts, 8 lb ai/A in NC and VA only). However these rates in excess of 4 lb ai/A are not typically used and consequently were not considered in our Special Review estimates.

## TENTATIVE RESIDUE ESTIMATES (PPM ALACHLOR EQUIVALENTS)

	Estimates based on Maximum
	Residue found in Field Trials
Crop	at Typical Use Pattern
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Corn	
grain	0.016
K+CWHR	0.005
forage	0.60
fodder&stover	0.20
meal	0.015
(soapstock)1/	0.029
crude oil	0.042
refined oil	0.0019
Peanuts2/	
nuts	0.27
hulls	0.9
meal	0.37
soapstock	0.05
crude oil	0.10
refined oil	0.02
forage	3.4
vines	3.4
Soybeans	
grain	0.21
hulls	0.32
mea1	0.26
refined oil3/	0.04
protein	
concentrates	0.07
protein isolate	s 0.04
soapstock	0.38
forage	2.6
hay	2.0
Sorghum	
grain	0.053
grits	0.03
bran	0.09
germ	0.15
flour	0.13
forage	1.4
fodder&stover	0.65
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## TENTATIVE RESIDUE ESTIMATES (PPM ALACHLOR EQUIVALENTS), CONT.

Crop	Estimates based on Maximum Residue found in Field Trials at Typical Use Pattern
Legumes bean/pea forage4/ bean/pea hay4/ pea seeds lima bean seeds dry bean seeds dry pea seeds peas w/ pods4/ lima beans w/pods4/ Sunflowers	2.6 4.6 0.03 0.03 0.21 0.12 0.27 0.21
sunflower seeds meal w/hulls crude oil refined oil5/ Cotton cottonseed refined oil6/	0.85 1.09 0.17 0.008 0.041 0.0004

1/ not regulated

2/ If 8 lb ai/A single application for use on peanuts is to remain registered under Section 24(c), then maximum residues are tentatively estimated at 0.87 ppm in peanuts, 2.7 ppm in peanut hulls, 4.8 ppm in peanut hay, and 12 ppm in peanut vines

3/ refined, deodorized oil for human consumption

4/ estimated from earlier residue data where only DEA metabolites of alachlor were measured

5/ estimated from concentration/reduction factors for corn oil 6/ estimate based on sunflower seed and corn oil processing data

cc: R. F., circu, S. Hummel, alachlor S.F., Alachlor S.R.F.,
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RDI:EZ:08/18/87:RDS:08/18/87
TS-769:RCB:SVH:svh:RM810:CM#2:08/18/87

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