

ENVIRONMENTAL SAFETY
REVIEW SUMMARY

108801

J.W. AKERMAN ①
ECOLOGICAL EFFECTS GRP
REVIEW SUMMARY

Chemical trade CGA 24705

Common

Chemical
Company 2-chloro-N-[2-ethyl-6-methylphenyl]-N-[2-methoxy-6-methylphenyl]acetamide

Submission TEMP PERMIT 100-EXP PETITION SG-15 REGISTRATION

Date submitted

Date received 10/2/74

Type of chemical herbicide

Use corn

Data submitted for review

Environmental safety:

Mammal LD₅₀

✓

Mammal chronic

✓

Fish

✓

Bird

✓

Shrimp, crab, oyster

✓

Other

Environmental chemistry (70-15)

Fish residue

✓

Other

BEST AVAILABLE COPY

AKERMAN

Chemical CGA 24705

Conclusions:

1. for aerial & ground application
2. preemergence - for control of most annual grasses & certain broadleaf weeds in corn
3. 66.7% ai, want 1002 lbs ai (167 gallons at 6 lbs ai/gal)
4. use 1-3 lbs ai/A ($1\frac{1}{3}$ -4 pts) OR tank mix with AAtrex 80W or 4L at rate of $1-2\frac{1}{2}$ lbs ai/A of CGA 24705 w/ .8-2 lbs ai/A of AAtrex
5. permit will cover approximately 501 acres
6. persistent in H_2O ($\frac{1}{2}$ life ~ 200 days) - for reg. read this report; also some runoff
7. present cautions "Keep out of any body of water. Do not apply where runoff is likely to occur. Do not contaminate water by cleaning of equipment or disposal of wastes."
8. a drift caution appears under directions for aerial application

Recommendations

W-35, W-61

RL

JRE
10/2/74

✓

ENVIRONMENTAL SAFETY
DATA ABSTRACT

J.W. Fiksdal
Ecological Effects Br

Chemical CGA 24705

Citation Ciba-Geigy

Reg. No. _____

Exp permit NO. 100-EXP

Portion no. 5G15

Accession NO _____

Submission date 10/2/74

ORGANISM	TEST	LD ₅₀	LC ₅₀	LC ₅₀ Aquatic			TEST MATERIAL
			Dietary	24 hr	48 hr	96 hr	
Rainbow trout	96 hr					2	tech.
Crucian Carp	96 hr					(3.6-6.8) 4.9	tech (confidence limit)
Channel Catfish	96 hr					(3.6-6.8) 4.9	tech. (confidence limit)
Guppy	96 hr					(7.4-10.5) 8.6	tech (confidence limit)
Bluegill	96 hr					15	tech.
Mallard	8 day subacute		> 10,000				tech
Bobwhite	8 day subacute		> 10,000				tech
Rat	acute oral	2780 (2180-3545)					tech ^{celen-} (confidence limit)
Rat ♂	Acute	4286 ⁽³⁰⁵²⁻⁶⁰²⁰⁾					applied Medical
Rat ♀	Oral	2828					Research (formulation)
rabbit	acute dermal	> 10,000					tech AMR
rat	73 week	NE @ 2000ppm					tech

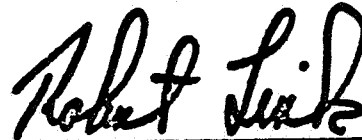
day 0 = 14 day old

QUAIL - 5 -

Material	Concentration ppm	Average Body Weight (g)		Total Estimated Food Consumption During Five-Day Exposure Period g
		Day 0	Day 8	
Technical CGA-24705	464	25	40	325
	1,000	25	42	500
	2,150	25	37	350
	4,640	27	37	425
	10,000	27	27	250
Dieldrin Controls	10.0	27	42	525
	14.7	27	45	525
	21.5	27	23	500
	31.6	27	30	550
	46.4	25	*	200
Negative Controls	0	25	38	450
	0	25	40	375
	0	25	40	400
	0	25	40	450
	0	25	40	375

* Data not available due to total mortality.

SUBMITTED BY

ROBERT FINK
Wildlife Toxicologist
Truslow Farms Inc.RF:bf
Attachments

MALLARD

Day 0 = 14 day old

Material	Concentration ppm	Average Body Weight (g)		Total Estimated Food Consumption During Five-Day Exposure Period g
		Day 0	Day 8	
Technical CGA-24705	464	165	342	3300
	1,000	158	335	3000
	2,150	172	337	3100
	4,640	180	322	3200
	10,000	192	257	2250
Dieldrin Controls	68	185	320	2600
	100	187	325	2600
	147	182	225	1825
	215	195	*	950
	316	187	*	800
Negative Controls	0	172	370	3325
	0	192	385	3700
	0	192	380	3025
	0	173	375	3225
	0	175	370	3100

* Data not available due to total mortality.

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Robert Fink

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Wildlife Toxicologist
Truslow Farms Inc.

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