US EPA ARCHIVE DOCUMENT

ENVIRONMENTAL SAFETY
REVIEW SUMMARY

108801

J.W. AKERMAN (1)
ECOLOGICAL EFFECTS BR.
REVIEW SUMMARY

Chemical Name CGA 24705

Common

Chemical

Company 2-chloro-N-[2-ethyl-6-methylphenyl]-N-[2-methoxy-1-methylphenyl] acetamide

Submission TEMP PERMIT 100-EXP PETITION 5G15 REGISTRATION

Date submitted Date received 10/2/74

Type of chemical herbicide

Use corn

Data submitted for review

Environmental safety:

Mammal LD_{50} ✓

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 100 lbs ai (167 gallons at 6 lbs ai/gal)
4. use 1-3 lbs ai/A (1⅓-4 pts) OR tank mix with AAtrex 80W or 4L at rate of 1-2½ 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 (½ life ~200 days) - for reg. read this report; also some runoff
7. present cautions "Keep out of any body of water. Do not apply when 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 JE 10/2/74

ENVIRONMENTAL SAFETY
DATA ABSTRACT

J W Akerman
Ecological Effects Br

Chemical CGA 24705

Citation Ciba-Geigy

Req. NO.

Exp permit NO. 100-EXP

Petition NO. 5G15

Submission date 10/2/74

Accession NO

ORGANISM	TEST	LD_{50}	LC_{50} Dietary	LC_{50} Aquatic 24 hr	48 hr	96 hr	TEST MATERIAL
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 limits)
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 Ciba-Geigy (confidence limits)
Rat ♂	Acute	4286 (3052-6020)					applied Medical Research (formulation)
Rat ♀	Oral	2828					
rabbit	acute dermal	>10,000					tech AMR
rat	13 week	NE @ 2000 ppm					tech

day 0 = 14 day old

QUAIL

Material	Concentration ppm	Average Body Weight (g) Day 0	Average Body Weight (g) Day 8	Total Estimated Food Consumption During Five-Day Exposure Period g
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

ROBERT FINK
Wildlife Toxicologist
Truslow Farms Inc.

RF:bf
Attachments

MALLARD

day 0 = 14 day old

Material	Concentration ppm	Average Body Weight (g) Day 0	Average Body Weight (g) Day 8	Total Estimated Food Consumption During Five-Day Exposure Period g
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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