US EPA ARCHIVE DOCUMENT

ENVIRONMENTAL EFFECTS
REVIEW SUMMARY
034401

J.W. AKERMAN ①
ECOLOGICAL EFFECTS BRANCH
REVIEW SUMMARY

Chemical Name: Dibrom
Common: Naled
Chemical: 1,2-dibromo-2,2-dichloroethyl dimethyl phosphate

Company: Chevron Chemical Co.

Submission: TEMP PERMIT ____ PETITION IF1078 REGISTRATION 239-1886

Date submitted April 3, 1974 Date reviewed September 11, 1974

Type of chemical: Insecticide

Use: Beans (lima), peas, hops, safflower

Data submitted for review

Environmental safety:

Mammal LD_{50} ____
mammal chronic ____
Fish ____
Bird ____
shrimp, crab, oyster ____
Other ____

NO ADDITIONAL DATA

Environmental chemistry (70-15)

Fish, residue ____
Other ____

NO ADDITIONAL DATA

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AKERMAN

Chemical Dibrom

Conclusions:

1. Dibrom conversion product is DDVP.

2. When sprayed on plant, Dibrom is rapidly decomposed to DDVP.

3. Dibrom has historically caused a residue controversy — bromide — Allowable Daily Intake (ADI) of bromides is already taken up by present registrations and other sources of bromides.

4. Many previously registered uses for Dibrom including mosquito - tidal marshes, swamps, forests — —

5. Proposed use on lima beans, peas, hops, and safflower should not present any environmental problems beyond reg. uses.

~~Recommendations~~ 6. Cautions required by Registration (Insecticide Rodenticide) Apr 26, 1974

"This product is toxic to fish, birds and other wildlife. Birds feeding on treated areas may be killed. Keep out of lakes, streams, or ponds. Shrimp and crab may be killed at application rates recommended on this label. Do not apply where these are valuable resources. Do not apply where runoff is likely to occur. Do not apply when weather conditions favor drift from areas treated. Do not contaminate water by cleaning of equipment or disposal of wastes. Apply this product only as specified on the label."

7. I-R Branch (F&W) Aug 5, 1974 change caution to read "Keep out of lakes, streams, ponds, tidal marshes and estuaries." (over)

This change appears to be in conflict with label use directions for tidal marshes, swamps.
Chevron has not responded to our Aug. 5 letter —
Let I-R Branch solve this problem when it arises.
(Do not comment on label precautions.)

5. Complete label not submitted, review made on proposed new uses only. — Beans, hops, and safflower.

Jeva

NAC 9-11-74