

US EPA ARCHIVE DOCUMENT

101201

(2)

EEE BRANCH REVIEW

DATE: IN _____ OUT 6/3/75 IN _____ OUT _____
FISH & WILDLIFE ENVIRONMENTAL CHEMISTRY EFFICACY

FILE OR REG. NO. _____

PETITION OR EXP. PERMIT NO. 239-Exp. 5G1624

DATE DIV. RECEIVED April 28, 1975

DATE OF SUBMISSION April 10, 1975

DATE SUBMISSION ACCEPTED _____

TYPE PRODUCT(S): (I, D, H, F, N, R, S) Insecticide

PRODUCT MGR. NO. _____

PRODUCT NAME(S) Monitor 4 Spary

COMPANY NAME Chevron Chemical Company

SUBMISSION PURPOSE Obtain Exp. Permit for use of Monitor in almonds

CHEMICAL & FORMULATION 0.S - Dimethyl phosphoramidothioate - 40%

100.0 Pesticidal Use

100.1,.2

- (a) READ ENTIRE LABEL. USE STRICTLY IN ACCORDANCE WITH DANGER STATEMENTS AND DIRECTIONS, AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS.

Keep Pesticide in original container. Do not put concentrate or dilute into food or drink containers.

Not for use or storage in or around the home.

FOR EXPERIMENTAL USE ONLY

Directions

ALMONDS: Navel Orangeworm - Apply 2 to 8 qts. (2 to 8 lbs. active) per acre as a single application 2 weeks before to 30 weeks after hull split, or 2 to 4 qts. (2 to 4 lbs. active) per acre as a 2 application program with the first application within 2 weeks before hull split and the second application within 3 weeks after hull split. Apply 400 to 500 gals. spray mix per acre using conventional ground equipment. Do not apply within 8 weeks of harvest. Do not feed hulls to livestock.

- (b) Fish & Wildlife Cautions on Label:

This product is toxic to birds and other wildlife. Birds and other wildlife in treated areas may be killed. Keep out of any body of water. 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 this label.

- (c) Purpose of Program

To develop more information on effective rates, application timing, yields and quality, and residue data under large-scale field trials.

- (d) Area of Use

California only.

- (e) Amount to be Shipped

88 gals. of Monitor 4 spray.

- (f) Acreage

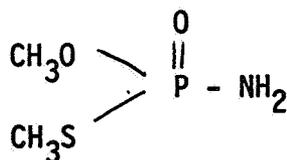
24 - 86.

101.0 Chemical and Physical Properties

101.1 O.S - Dimethyl phosphoramidothioate

101.2 Monitor (Ortho 9006)

101.3



102.0 Behavior in the Environment

(Previously submitted)

103.0 Toxicological Properties

(Previously submitted)

104.0 Hazard Assessment

104.1 Discussion

104.1.1 The toxicological studies submitted so far appear adequate.

104.1.2 An expansion of MONITOR's use to any new crops with large acreages (other than almonds) will necessitate dietary LC₅₀ studies with mallard duck and avian reproduction studies.

104.1.3 The impact of MONITOR on non-target organisms should be minimal. MONITOR is not highly toxic to fish and degrades rapidly in soil (1/2-life = 2-6 days). It is noted that MONITOR is acutely toxic to mammals and birds and that chronic studies show adverse effects on mammals at low levels (3 ppm). However, the short 1/2-life of MONITOR lessens concerns about chronic toxicity. The label precautions and limitations concerning wildlife are presently adequate. Further, one application of a maximum of 8# a.i./A (or two applications of 4# + 4# a.i./A) by ground equipment in an area not considered to be prime wildlife habitat greatly reduces hazard to non-target organisms.

105.0 Conclusions

105.1 The recommended rates of application are confusing. The label recommends 2#-8# a.i./A (single application) or 2#-4# a.i./A (two applications) in 400-500 gals. spray mix/A. The proposed experimental program, however, recommends 0.5-20# a.i./100 gals. of spray mix in 400-500 gpa. This implies a maximum application of 10# a.i./A. Which do you intend? Please clarify or amend where appropriate.

105.2 An expansion of MONITOR's use to any new crops with large acreages (other than almonds) will necessitate dietary LC₅₀ studies with mallard duck and avian reproduction studies.

Norman J. Cook

Norman J. Cook 6/3/75
Fish & Wildlife Section
Efficacy & Ecological Effects Branch

6/11/75