

9-29-77

LEE BRANCH REVIEW

DATE: IN _____ OUT _____ IN 8/30/77 OUT 9/29/77 IN _____ OUT _____
FISH & WILDLIFE ENVIRONMENTAL CHEMISTRY EFFICACY

FILE OR REG. NO. 241-243

PETITION OR EXP. PERMIT NO. _____

DATE DIV. RECEIVED 1/27/77

DATE OF SUBMISSION _____

DATE SUBMISSION ACCEPTED 3CID-2B-Yes

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

PRODUCT MGR. NO. Taylor - 25

PRODUCT NAME(S) Prowl Herbicide

COMPANY NAME American Cyanamid Company

SUBMISSION PURPOSE Use on soybeans with Sencor/Lexone sequential and tank mix.

CHEMICAL & FORMULATION ^{Penoxalin;} ([N-(1-ethylpropyl)-3,4-dimethyl-2,6-dinitrobenzenamine]),
Prowl, Penoxalin, Tank mix with Sencor/Lexone.

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- 1.0 Introduction
- 1.1 Prowl, ([N-(1-ethylpropyl)-3,4-dimethyl-2,6-dinitrobenzenamine]), Penoxalin, N-(1-ethylpropyl)-2,6-dinitro-3,4-xylidine.
- 1.2 Percent active:
43.8% ([N-(1-ethylpropyl)-3,4-dimethyl-2,6-dinitrobenzenamine])
1 gal. contains 4 lbs. a.i.
- 1.3 For use on soybeans with Sencor/Lexone sequential and tank mix. We have tank mix data.
- 1.4 Other environmental chemistry reviews:
5F1556 1/6/75
6F1704 2/19/76
6F1741 3/5/76
- 2.0 Directions for Use
- 2.1 Preplant and Preemergence Tank mixtures or preplant plus preemergence sequential applications of Prowl plus Sencor/Lexone.
- 2.1.1 Selected Southern States and Eastern Coastal Plains.
Apply 1.5 to 2.0 pts. Prowl and 0.5 to 1.0 lb. Sencor 50 W/Lexone 50 W per acre depending on soil type.
- 2.1.2 Northeastern and Northcentral States.
Apply 1.0 to 2.5 pts. Prowl and 0.75 to 1.0 lb. Sencor 50 W/Lexone 50W per acre depending on soil type.
- 2.1.3 Do not use on sands. Do not use on loamy sands, or on sandy loams that contain less than 1% organic matter (south and eastern coastal plains states) or less than 2% organic matter (northeastern and northcentral states). Do not use on peat or muck soils.
- 2.1.4 If replanting with soybeans is necessary, do not rework the soil. Land can be replanted with other crops the following year. Apply Prowl + Sencor/Lexone only once per cropping season.

- 2.1.5 Do not apply to soils with a calcareous surface or a pH of 7.5 or higher.
- 2.1.6 Do not use treated vines for feed or forage.
- 2.1.7 Flood, furrow or subirrigated soils with 10% or less organic matter that have been treated with Sencor/Lexone should be plowed to a depth of 6 to 8 inches before any rotation crops are planted.
- 2.1.8 Leafy Vegetables (including lettuce, mustard, turnip greens, Beet Greens, Cole Crops, Celery, Spinach). Do not plant for 12 months after application of Sencor/Lexone in specified states and on soils with 10% or less organic matter in other states.
- 2.2 Keep out of lakes, streams, ponds. Do not apply when weather conditions favor drift from target area. Do not contaminate water by cleaning of equipment or disposal of wastes.
- 2.3 Do not use, pour, spill or store near heat or open flame.
- 2.4 Do not store below 40° F.
- 2.5 Do not store near food or feed products.
- 2.6 Disposal
Drain container into spray tank. Rinse. Do not reuse empty container.
Crush and recycle pail for scrap, or crush and/or bury.
- 2.7 Apply Prowl or tank mix in 10 gal. or more water by ground equipment ~~at~~ 5 gals. or more water by aircraft.
- 2.8 Prowl alone. Apply 1.0 to 3.0 pts. Prowl depending on soil type and area. Do not use on peat or muck soils.

3.0 Recommendations

3.1 We concur with the proposed uses pending Mr. Compt and Dr. Rogoff's concurrence and provided an 18 month crop rotation restriction is observed for Sencor/Lexone.

3.2 Environmental chemistry section previously concurred with use of Prowl alone on soybeans.

3.3 No new data is submitted or referenced with this submission. Data previously reviewed will not be validated at this review per Rogoff's memo to Doug Compt. of Aug. 12, 1977.

RL Cook 10-13-77 Acting Section Head

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Environmental Chemistry Section

EEE Branch