

US EPA ARCHIVE DOCUMENT

9-29-77

EEE BRANCH REVIEW

DATE:	IN _____	OUT _____	IN <u>8/30/77</u>	OUT <u>9/29/77</u>	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.

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