

2243182
RECORD NO.

121001
SHAUGHNESSEY NO.

25
REVIEW NO.

EEB REVIEW

APR 19 1989

DATE: IN 04-13-89 OUT

FILE OR REG. NO. 89-ND-03

PETITION OR EXP. NO.

DATE OF SUBMISSION 04-05-89

DATE RECEIVED BY EFED 04-12-89

RD REQUESTED COMPLETION DATE 04-27-89

EEB ESTIMATED COMPLETION DATE 04-27-89

RD ACTION CODE/TYPE OF REVIEW 510

TYPE PRODUCT(S) Herbicide

DATA ACCESSION NOS.

PRODUCT MANAGER NO. D. Stubbs (41)

PRODUCT NAME(S) Poast (Sethoxydim)

COMPANY NAME State of North Dakota

SUBMISSION PURPOSE Proposed Sec. 18 for use on

canola (winter rape)

SHAUGHNESSEY NO. CHEMICAL AND FORMULATION % AI

121001 Sethoxydim

EEB REVIEW

Chemical: Poast (Sethoxydim)

100 Submission Purpose and Label Information

100.1 Submission Purpose and Pesticide Use

The State of North Dakota is requesting an emergency exemption (Section 18) for the use of Poast herbicide to control annual and perennial grasses in canola (winter rape). No new data were submitted with this request.

100.2 Formulation Information

Active Ingredient:

Sethoxydim	18%
Inert Ingredients	82%

Contains 1.5 lb ai per gallon.

100.3 Application Methods, Directions, Rates

Poast is a selective postemergence herbicide, to be applied by ground or aerial equipment in a minimum of 5 gallons of water per acre. Two postemergence applications are authorized under this exemption, at a rate of 0.5 to 1.5 pints of product (0.09 to 0.28 lb ai) per acre. See attached label for application information.

100.4 Target Organism

Target organisms are the following grasses:

Green foxtail	<u>Setaria viridis</u>
Yellow foxtail	<u>Setaria glauca</u>
Quackgrass	<u>Agropyron repens</u>
Volunteer barley	<u>Hordeum vulgare</u>
Volunteer wheat	<u>Triticum aestivum</u>
Wild oats	<u>Avena fatua</u>
Wild proso millet	<u>Panicum miliaceum</u>

100.5 Precautionary Labeling

Environmental Hazards

Do not apply directly to water. Do not contaminate water by cleaning of equipment or disposal of wastes.

101 Hazard Assessment

101.1 Discussion

The proposed emergency exemption would allow the use of Poast herbicide on 75,000 acres of canola (winter rapeseed) in North Dakota. Maximum application rate is 1.5 pints of product (0.28 lb ai) per acre, with two applications allowed.

101.2 Likelihood of Adverse Effects on Nontarget Organisms

Data from previous EEB reviews indicate that sethoxydim is practically nontoxic to mammals, birds, and freshwater fish, and no more than slightly toxic to aquatic invertebrates. The low use rate will result in residues of less than 70 ppm on terrestrial dietary food items. Direct application to water at the maximum proposed rate would result in an aquatic EEC of less than 0.15 ppm, substantially less than that expected to adversely affect aquatic fauna. Given an environmental half-life of less than four days in both soil and water, sethoxydim is not expected to cause any adverse effects in nontarget fauna.

101.3 Endangered Species Considerations

On the basis of low toxicity to mammals, birds, fish, and aquatic invertebrates, hazard to endangered species of animals is not expected from the proposed use. The only organisms at risk would be nontarget plants. Review of EEB's Endangered Species files indicates that there is one endangered plant species native to prairie habitat, the western prairie fringed orchid. According to the Endangered Species Technical Bulletin (Vol. XIII, Nos. 11-12, November/December 1988), North Dakota's only population of this orchid is located on a National Grassland managed by the U.S. Forest Service. Thus, application to agricultural crops will not impact this species.

101.4 Adequacy of Toxicity Data

The existing database is adequate to assess hazards to nontargets under the proposed exemption.

103 Conclusions

EEB has reviewed the proposed emergency exemption for the use of Poast herbicide on canola in North Dakota. EEB concludes that the proposed use will not result in hazard to nontarget organisms, including endangered species.

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Sethoxydim ecological effects review

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The material not included contains the following type of information:

- ☐ Identity of product inert ingredients
- ☐ Identity of product impurities
- ☐ Description of the product manufacturing process
- ☐ Description of product quality control procedures
- ☐ Identity of the source of product ingredients
- ☐ Sales or other commercial/financial information
- ☒ A draft product label
- ☐ The product confidential statement of formula
- ☐ Information about a pending registration action
- ☐ FIFRA registration data
- ☐ The document is a duplicate of page(s) _____
- ☐ The document is not responsive to the request

The information not included is generally considered confidential by product registrants. If you have any questions, please contact the individual who prepared the response to your request.