

261674
RECORD NO. --

121001
SHAUGHNESSEY NO.

REVIEW NO.

EEB REVIEW

APR 17 1990

DATE: IN 04-02-90 OUT

FILE OR REG. NO. 90-MT-06

PETITION OR EXP. NO.

DATE OF SUBMISSION 03-19-90

DATE RECEIVED BY EFED 03-17-90

RD REQUESTED COMPLETION DATE 04-11-90

EEB ESTIMATED COMPLETION DATE 04-11-90

RD ACTION CODE/TYPE OF REVIEW 510

TYPE PRODUCT(S) Herbicide

DATA ACCESSION NOS.

PRODUCT MANAGER NO. S. Stanton (41)

PRODUCT NAME(S) Poast (Sethoxydim)

COMPANY NAME State of Montana

SUBMISSION PURPOSE Proposed Sec. 18 for use on
canola (winter rape)

SHAUGHNESSEY NO.	CHEMICAL AND FORMULATION	% AI
<u>121001</u>	<u>Sethoxydim</u>	<u> </u>
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EEB REVIEW

Chemical: Poast (Sethoxydim)

100 Submission Purpose and Label Information

100.1 Submission Purpose and Pesticide Use

The State of Montana 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

Primary target organisms are the following grasses:

Green foxtail	<u>Setaria viridis</u>
Quackgrass	<u>Agropyron repens</u>
Volunteer barley	<u>Hordeum vulgare</u>
Volunteer wheat	<u>Triticum aestivum</u>
Wild oats	<u>Avena fatua</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 40,000 acres of canola (winter rapeseed) in Montana. Maximum application rate is 1.5 pints of product (0.28 lb ai) per acre, with two applications allowed. The application period will last from May 1, 1990 through July 15, 1990.

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.

Because this product is an herbicide, there is a potential for hazard to nontarget plants. Aerial application will result in an increased nontarget plant hazard.

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 are no endangered plant species native to Montana. Thus, use under the proposed exemption will not impact any endangered species.

101.4 Adequacy of Toxicity Data

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

101.5 Adequacy of Labeling

To conform with current labeling recommendations, the Environmental Hazards statement should be amended to read as follows:

"Do not apply directly to water. Do not contaminate water when disposing of equipment washwater or rinsate."

103 Conclusions

EEB has reviewed the proposed emergency exemption for the use of Poast herbicide on canola in Montana. EEB concludes that the proposed use will not result in hazard to nontarget organisms, with the possible exception of nontarget plants. There are no endangered species in Montana that will be adversely affected by the proposed use.

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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.