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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

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OFFICE OF
PESTICIDES AND TOXIC SUBSTANCES

Memorandum

Subject: SD-870002: Section 24(c) Registration of ORTHENE 75 S Soluble Powder (Acephate) to control grasshoppers on field borders, fence rows, roadsides, ditchbanks, and borrow pits. No MRID or Accession No., RCB No. 2462.

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Thru: *for* Edward Zager, Section Head *L. Cheney*
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To: William Miller, PM-16
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The South Dakota Department of Agriculture has issued a 24 (c) registration for ORTHENE 75 S Soluble Powder to control grasshoppers on field borders, fence rows, roadsides, ditchbanks, and borrow pits.

ORTHENE 75 S Soluble Powder, EPA Reg. No. 239-2418, is a registered trademark of Chevron Chemical Co., ORTHO Agricultural Chemical Division. The product contains 75% acephate [O,S-dimethyl acetylphosphoramidothioate] as its active ingredient.

Tolerances are established (40 CFR 180.108) for combined residues of acephate and its cholinesterase-inhibiting metabolite methamidophos [O,S-dimethyl phosphoramidothioate] in or on several raw agricultural commodities. 40 CFR 180.108 tolerances applicable to this Section 24 (c) registration include: grass (pasture and hay) at 15.0 ppm; milk at 0.1 ppm, and fat, meat, and mby of cattle at 0.1 ppm.

A Registration Standard for acephate was issued 1-27-82.

ORTHENE 75 S Soluble Powder is registered for the control of grasshoppers on pastures, rangeland, and wastelands as follows: apply 1/8 to 1/6 lbs. (0.094 to 0.125 lbs. a.i.) per acre in a minimum of 0.5 gallons of spray solution by air, or 10 to 20 gallons per acre with ground equipment. Use restrictions include: do not apply when lactating cattle are present; do not pasture or feed treated hay to lactating dairy cattle within 21 days of application; do not remove hay from treated areas within 21 days of application; remove meat animals from treated areas at least 1 day before slaughter if they were present at application or grazed treated areas within 21 days of application; and do not make more than one application per season.

SD-870002 calls for use of ORTHENE 75 S Soluble Powder to control grasshoppers on field borders, fence rows, roadsides, ditchbanks, and borrow pits as follows: apply 0.25 lb. a.i. per acre in 1-5 gallons of water by air, or in 10-20 gallons of water with ground equipment. The label contains the following use restriction and special directions: do not graze or feed vegetation cut from treated areas within 42 days of application; this product is highly toxic to bees exposed to direct treatment or residues on crops; all applicable directions, restrictions and precautions on the EPA registered label are to be followed.

The section 24 (c) label essentially increases (2x) both the application rate and time restriction for grazing/feeding.

No residue data were provided with SD-870002, however, acephate residues on treated grass are discussed in the Oct. 5, 1984, Addendum to the Acephate Registration Standard. Data applicable to SD-87-0002 are summarized as follows: Combined acephate residues on range grass/range vegetation treated with 0.25 lb. a.i. per acre declined from 11-24 ppm on days 0-3 to 1.6-7.0 ppm on days 13-17. In a similar field trial, combined acephate residues on range grass treated with 0.5 lb. a. i. per acre decreased from 34-83 ppm on the day of treatment to 12-22 ppm on days 13 to 17 after treatment.

Conclusions:

1. This Section 24 (c) use is considered a food use.
2. To alleviate potential contamination of food crops, the following modification to the wording on the label should be made: the term "Field Borders" should read "Pasture Field Borders" and the term "ditchbanks" should read "non-irrigation ditchbanks"

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3. Available residue data indicate that the established tolerance (15 ppm) for combined residues of acephate in or on grass (pasture and hay) will not be exceeded as a result of this Section 24(c) registration.

Recommendation

We have no objection to this Section 24 (c) registration, provided the changes to the label described in conclusion 2 are made.

cc:R.F.,S.F.,Circu,Reviewer,Section 24 (c) file,PMSD/ISB
RDI:LC:7/9/87:RDS:7/9/87
TS-769:RCB:FBS:fbs:557-1883:CM#710:7/10/87