

US EPA ARCHIVE DOCUMENT

Environmental Chemistry Review of [O,O-Dimethyl S-(2-mercapto-1,2,3-benzotriazin-3(4H)-yl)methyl]phosphorothioate] (Guthion)

Petition No. 5F1546
Reg. No. 3125-25,102,123,193
Company Name: Chemagro Corp.

3-31-75

1. Recommendations

1.1. RL to registration.

1.2. Data to supplement PR Notice 70-15 are as follows and should be submitted within one year.

1.2.1. Soil leaching study using labeled material. Soil should be Lakeland fine sand, sandy loam and silty clay loam. Break-through point should be determined. Soil should be fortified and left undisturbed for one week and one month before eluting starts.

1.2.2. A soil degradation study is needed. Labeled material should be used to determine material balance. Samples should be used to determine material balance. Samples should be collected at PHI's of 0 day, 1 week, 3, 6, 12, and 20 weeks.

1.2.3. Answers to 2(a), (b), (c), (d), and 5(a), (b), and (c) in PR Notice 70-15.

1.2.4. Runoff studies should have included separate analysis silt, soil particles from runoff water.

1.2.5. A fish residue study is needed.

2. Introduction

2.1. This chemical is registered for use on alfalfa and clover.

2.2. Applicant proposes the use of Guthion on pasture grass and pasture grass hay with tolerances of 2 ppm and 5 ppm respectively.

2.3. See previous evaluations dated 1-16-74 and 1-24-75.

3. Directions for Use

3.1. Grasses (Including Pastures and Rangelands)

Apply 0.5 to 0.75 lbs. a.i./acre. Do not apply more than once per cutting. Do not graze or harvest within 16 days of application at the 0.5 lb. a.i./acre rate or 21 days at greater rates.

For Guthion 25% W.P. (Reg. No. 3125-25) and Guthion 50% W.P. (Reg. No. 3125-193) apply specified dosage in a minimum of 10 gallons of water/acre.

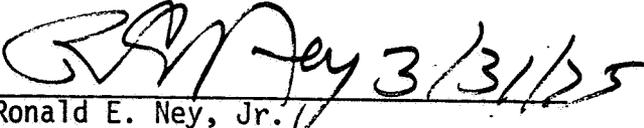
For Guthion 2L (Reg. No. 3125-102) and Guthion 2S (Reg. No. 3125-123) apply by air or ground equipment in sufficient water for complete coverage minimum 1 gal./acre.

3.2. Alfalfa and Clover

Expanded to include stands mixed with grasses at same rates of application as on pure stands. Preharvest intervals apply to grazing.

4. Discussion of Data

No environmental chemistry data submitted. The pesticide registered on similar uses.


Ronald E. Ney, Jr.
3-6-75

Joe B. Boyd
3-6-75

3-24-75