Cover Sheet for

ENVIRONMENTAL CHEMISTRY METHOD

Pestcide Name: Ethoprop

MRID #: 417124-01

Matrix: Soil

Analysis: GC/FPD

This method is provided to you by the Environmental Protection Agency's (EPA) Environmental Chemistry Laboratory (ECL). This method is not an EPA method but one which was submitted to EPA by the pesticide manufacturer to support product registration. EPA recognizes that the methods may be of some utility to state, tribal, and local authorities, but makes no claim of validity by posting these methods. Although the Agency reviews all Environmental Chemistry Methods submitted in support of pesticide registration, the ECL evaluates only about 30% of the currently available methods. Most methods perform satisfactorily but some, particularly the older methods, have deficiencies. Moreover, the print quality of the methods varies considerably because the methods originate from different sources. Therefore, the methods offered represent the best available copies.

If you have difficulties in downloading the method, or further questions concerning the methods, you may contact Elizabeth Flynt at 228-688-2410 or via e-mail at flynt.elizabeth@epa.gov.

MORSE LABORATORIES, INC.

CHOICH ANALYSIS MORESEARCH

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April 20, 1989

RHONE-POULENC, INC.

Rhone-Poulenc Analytical Method No. 172

An Analytical Residue Method for the Determination of O-Ethyl-S, S-DI-N-Propylphosphorodithioate (Ethoprop) in Soil by Gas Chromatography (August 1984)

Rhone-Poulenc Study No.: EC/P-89-0012

PROCEDURE:

SUPERS SHOWER

- Homogenize the soil sample such that a representative subsample may be obtained (remove stones, sticks and other extraneous materials).
- Weigh 50 g of soil into s 500 mL erlenmeyer.

NOTE: See the Rhone-Poulenc Protocol Study No.: EC/P-89-0012 for Soil Moistures. We will not be following Morse Labs SOP for Soil Moistures.

- 3. Add 100 mL McOH to the bottle, cover with foil and tape foil around the neck of the erlenmeyer.
- 4. Blend on a roller mill for 15 minutes (Morse Labs uses a platform shaker).
- 5. Allow soil to settle out. Filter erlenmeyer contents through a buchner funnel with the aid of a mild vacuum. Rinse the erlenmeyer with 30 mL and pour into the buchner funnel.
- Discard the filter cake.
- Add 5 drops of 10% decanol in acetone to filtrate.
- Rotovap at 30-35°C to approximately 30 mL.
- 9. Transfer to a 250 mL separatory funnel. Rinse the flask with 20 mL of MeOH and pour into the separatory funnel.

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Rhöne-Poulenc Ag Company, Final Report, November 2, 1990 Ethoprop Field Soil Dissipation Study, Washington and North Carolina File Number 40641 Page 149 of 164 Rhone-Poulenc April 20, 1983 Page #2

- 10. Add to the separatory funnel 150 mL of the 10% aqueous sodium chloride solution.
- 11. Partition the aqueous solution two times with 100 mL portions of hexane.
- 12. Drain each 100 mL of hexane through Whatman #4 filter paper containing anhydrous sodium sulfate into a 400 mL beaker.
- 13. Add 5 drops of 10% decanol in acetone.
- 14. Place on steambath to evaporate. Be sure to place the beaker on top of the watchglass. If the beaker gets too cool, the hexane will pick up $\rm H_2O$.
- 15. Evaporate down to 1-2 mL.
- 16. Transfer the 1-2 mL of hexane to a test tube. Continue the transfer using ETAC.

DAMIN PRICES WATER PROPERTY

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Reviewed by: _

Analysis: Strate Robins on

COMMENIS Brunch Statisty Study BLST AVAILABIL COPT

RESIDUE - RAW DATA SHEET

M.L. Project No. ML89 - 0075 - RHP Protocol No. E.C./P .. 89 - 0012 Sponsor No. MORSE LABORATORIES, INC. 1625 FULTON AVENUE SACRAMENTO, CA. 95825

Page No. 1 of

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Product

Laboratory: No.

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NOTED

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DATE SAMPLE EXTRACTED: 3 - 30 - 10

DATE SAMPLE ANALYZED (INSTRUMENTATION): 4-10-90 8-4-89 DATE SAMPLE RECEIVED:

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