MORSE LABORATORIES, INC.

CHOICH ANALYSIS MORESEARCH

1929 FULTON AVENUE SACRAMENTO, CALIFORNIA 99829 TELEPHONE (9161491-3141 FAIR (9141481-2989

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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.
- 7. 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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Rhone-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.