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1-26-96

DP Barcode: ~~D218613~~ ~~D210808~~ D210808

MRID No.: 434928-10

**DATA EVALUATION RECORD**
**§ 71-1(A) - AVIAN SINGLE-DOSE $LD_{50}$ TEST**

1. **CHEMICAL:** PIRATE™ PC Code No.: 129093

2. **TEST MATERIAL:** AC 303,630 Technical Purity: 94.5 %

3. **CITATION**

Authors: Helsten, B.R., and Sullivan J.S.
Title: Pilot dietary Toxicity with AC 303,630 Technical in the Northern Bobwhite (*Collinus virginiana*)
Study Completion Date: August 11, 1994
Laboratory: Bio-Life Associates, Inc.
Sponsor: American Cyanamid Company, Princeton, NJ
Laboratory Report ID: BLAL No. 105-022-125
MRID No.: 434928-10

4. **REVIEWED BY:** John D. Eisemann, Wildlife Biologist, EEB, EFED
**Signature:** John D. Eisemann **Date:** 1/26/96

5. **APPROVED BY:** Ann Stavola, Head, Section (5), EEB, EFED
**Signature:** Ann Stavola **Date:** 1/26/96

6. **STUDY PARAMETERS**

**Scientific Name of Test Organism:** *Collinus virginiana*
**Test Organisms Age/Size:** 17 weeks
**Definitive Study Duration:** 28 days

7. **ADEQUACY OF THE STUDY**

**A. Classification:** Supplemental

**B. Rational:** Evaluation of a pilot study is not required.

**C. Repairability:** Nothing further is required.

8. **CONCLUSIONS:**

This study is scientifically sound and can be used to determine dose levels to be used in a definitive dietary toxicity study.

Nominal doses used in this study were 0, 10, 20, 40, 80, 160 ppm. Mortality was observed in all treatment groups as follows:

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| Treatment | Number tested | Number dead |
|---|---|---|
| Control | 10 | 0 |
| 10 ppm | 10 | 1 |
| 20 ppm | 10 | 1 |
| 40 ppm | 10 | 2 |
| 80 ppm | 10 | 1 |
| 160 ppm | 10 | 6 |

Clinical signs of intoxication included lethargy in the 80 and 160 ppm group and ataxia in the 160 ppm group.

Body weights of the 160 ppm group were significantly lower than the controls on test days 7, 14, 21 and ~~for~~ males only on test day 28.

Feed consumption values were significantly less in the 160 ppm group than in the control group during week 4.

Gross pathological exam attributed emaciation and intestine distention with gas to the test substance.

NOEL <10 ppm



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