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DATA EVALUATION REPORT

STUDY TYPE: Eye Irritation Study (rabbit)

MRID NO.: 116481 TOX. CHEM. No.: 320

TEST MATERIAL: 2,4-DP butoxy ethanol ester (purity not specified) Lot No. 16383

SPONSOR: Amchem Products, Inc.

CITATION: Eye Irritation Study (rabbit) (1977); Study No.: CDC-AM-004-77; CDC Research, Inc.; Clarks Summit, PA. Submitted by Union Carbide Agricultural, Inc.; EPA Accession No. 237875.

MATERIALS AND METHODS: 5 male and 4 female New Zealand White rabbits had one eye instilled with 0.1 ml of 2,4-DP butoxy ethanol ester. The rabbits were then divided into two groups: one group (3/sex) had their treated eye unwashed, and the other group (2 males and 1 female) had their treated eye washed with lukewarm water 4 sec after treatment. The untreated eye of each animal was used as the control. Observations were made with hand light, lens, Zoombiomicroscope and/or ophthalmoscope at 1, 3, 5, 24, 48, 72, 96, and 7 days after treatment.

RESULTS: In the unwashed group, 3/3 females showed mild conjunctival irritation. At 24 hr the affected eye of 2/3 females returned to normal, and that of the 3rd female appeared to be normal at 48 hr. No additional effects were observed.

In the washed group, mild conjunctival redness was observed in 1/2 males and a female at 5 hr; at 24 hr the affect eye returned to normal. Other effects were not observed.

CONCLUSION: The test compound was shown to cause mild irritation in the conjunctivae of treated rabbits (3/6 in the unwashed group; 2/3 in the washed group). The affected eye returned to normal within 48 hr after treatment. Based upon the reported data, the toxicity category for this test compound is III (eye irritation).

The information on the purity and the chemical analysis of this compound are not presented in the report; the study is classified as supplementary.