UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

000464

DATE: November 25, 1980

SUBJECT: EPA Registration Number: 11773-R
Atrazine 4L Herbicide: Caswell # 63

Release
#63

FROM: Deloris F. Graham DFG 12/5/80
FHB/TSS
E 12/15/80

TO: Robert Taylor
Product Manager (25)

Applicant: Van Diest Supply Company
Webster City, Iowa 50595

Active Ingredient:
2-Chloro-4-ethylamino-6-isopropylamino
-s-triazine 40.8%
Related compounds 2.2%
Inert Ingredient 57.0%

Background:

Resubmission of Acute Inhalation study as requested in original review.

Recommendation:

(1) The Acute Inhalation Study is acceptable to support conditional registration of this product.

(2) FHB/TSS has no objections to the conditional registration of this product.

Label:

(1) No additional labeling comments.

Atrazine/Review #34/11-25-80/3 pages

EPA FORM 1320-6 (REV 3-76)

000464

Review:

(1) Acute Inhalation Study: Cosmopolitan Safety Evaluation Inc., laboratory; C.S.E # 1429-1-1; September 17, 1980.

Procedure: The chamber used was made of plexiglass, and had a volume of 57.8 liters. On one side near the top of the exposure chamber is a portal through which the test substance and an air flow were introduced. and at the opposite side near the bottom, a portal for exhaust. Air flow was established using a Gas Air Pump. The test article was delivered from an aerosol generator. Particle size was determined using a Cascade Impactor. The delivery system was stabilized to give a concentration in excess of 5mg of test substance per liter in the chamber atmosphere. The concentration was 7.38 mg/L and the average mass median diameter was 2.94 microns.

A control group of 5M and 5F and a treated group of 5 males and 5 females were used. The treated group was exposed to an atmosphere containing dispersed test article at a concentration greater than 5mg per liter for four hours. Animals were observed at frequent intervals during the four hour exposure period and at

least twice daily thereafter for 14 days. Body weights recorded. Necropsy examinations were performed on all animals.

Results: No mortalities. No signs of toxicity observe Animals gained weight. Since there were no mortalit. in rats exposed for four hours to 7.38 mg of test article per liter of air, it was concluded that the LC50 is greater than 5mg/l for four hours.

Study Classification: Core Guideline Data

Toxicity Category: III - CAUTION