DATE: November 25, 1980
SUBJECT: EPA Registration Number: 11773-R
         Atrazine 4L Herbicide: Caswell # 13
FROM: Deloris F. Graham EF 12/5/80
      FHB/TSS EF 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.
Review:


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 5 mg 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 5 M and 5 F 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 5 mg 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 observed.
Animals gained weight. Since there were no mortalities
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