

## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

11-3-78  
CASWELL FILE68103  
29001

DATE: November 3, 1978

SUBJECT: Vorlex Soil Fumigant EPA Registration#2139-55  
Caswell#324, 324A and 573

FROM: William Dykstra, Ph.D. 11/3/78 WED  
Toxicology Branch/HED

TO: Henry Jacoby  
Product Manager#21

Registrant: NOR-AM Agricultural Products  
1275 Lake Avenue  
Woodstock, ILL. 60098

Action Type: Addition of Precautionary Statements.

Recommendations:

1. In order to evaluate the precautionary labeling, the following toxicology studies on the formulated product are required to be submitted or referenced:
  - a. Acute Oral LD<sub>50</sub> - rats
  - b. Acute Dermal LD<sub>50</sub> - rabbits
  - c. Primary Skin Irritation - rabbits
2. A review of toxicity data on file indicates that the formulated product is in Toxicity Category I DANGER, on the basis of eye irritation and Toxicity Category III, CAUTION, on the basis of inhalation LC<sub>50</sub>. It is uncertain whether the correct human hazard signal word would be Danger, Poison (Skull and Crossbones) due to oral and dermal toxicity or Danger due to eye and skin irritation. The present label in either case would require the addition of Corrosive. Causes Severe eye damage and skin irritation. Wear goggles or face shield and rubber gloves when handling.
3. A complete evaluation of precautionary labeling will be done after review of the requested acute toxicity studies.
4. 1,3-dichloropropene is an RPAR chemical.

Review:

1. Memo of 1/31/78 from W. Dykstra to Eugene Wilson (21).
  - a. Inhalation LC<sub>50</sub> = 11.0 mg/L for formulated product; TOX III: CAUTION
  - b. Eye Irritation; Severe eye damage for formulated product; TOX I: DANGER

TOX/HED:th:REngler:11-3-78

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