

Contains No CBI



**R.T. Vanderbilt Company, Inc.**  
INDUSTRIAL MINERALS AND CHEMICALS

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REC'D  
OFFICE OF POLLUTION  
PREVENTION AND TOXICS

93 DEC 29 AM 2:17

8EHQ-1293-1280

CERTIFIED MAIL



December 17, 1993

OTS Document Processing Center (TS-790)  
Attn: Section 8(e) Coordinator  
Office of Toxic Substances  
U.S. ENVIRONMENTAL PROTECTION AGENCY  
401 M Street S.W.  
Washington, DC 20460



8EHQ-93-12806  
INIT 12/20/93

Subject: Notice of Substantial Risk Under TSCA Section 8(e).  
Zinc dimethyldithiocarbamate



88940000091

Dear Sir/Madam:

R.T. Vanderbilt Company, Inc. hereby submits this Notice in accordance with Section 8(e) of the Toxic Substances Control Act (TSCA).

An "Acute Neurotoxicity Study of Ziram in Rats" is being performed at WIL Research Laboratories under study no. 223001. The dose levels for this study are 0, 15, 300 and 600 mg/kg. Dose related mortalities were seen in the mid dose females (1/12) and the high dose males (4/16) and females (7/16).

The time to peak effect was determined to be 4 to 6 hours post dosing. At this interval, effects on Functional Observation Battery parameters were seen in males and females receiving 300 and 600 mg/kg. These effects included changes in the following parameters:

Home cage observations  
Posture  
Palpebral Closure  
Feces Consistency

Handling Observations  
Lacrimation  
Salivation  
Fur Appearance  
Respiratory Rate  
Red Crust Deposits

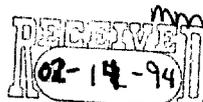
Sensory Observations  
Air Righting Reflex

Open field Observations  
Time to First Step  
Mobility  
Gait  
Gait Score  
Arousal  
Rearing

Neuromuscular Observations  
Hindlimb Extensor Strength

Physiological Observations  
Body Temperature

Reductions in motor activity were also noted for the 300 and 600 mg/kg groups.



At the Day 7 observation interval, findings were limited to the male rats. Decreased motor activity was noted for the males from the 300 and 600 mg/kg groups. Decreased rotorod performances were seen in the 600 mg/kg males only.

At the day 14 interval, no treatment related differences were apparent.

The above information was derived from unaudited data tables. R.T. Vanderbilt will provide the Agency with a copy of the final study report after it has been received.

Zinc Dimethyldithiocarbamate (Ziram) is contained in METHYL ZIMATE Powder and METHYL ZIMATE Slurry, both products of the R.T. Vanderbilt Company.

If you require additional information on this submission, please contact Rasma Balodis, tel. (203) 853-1400.

Sincerely yours,

R.T. VANDERBILT COMPANY, INC.



Jaime D. Lathrop  
Executive Vice President

JDL/dap