

CODING FORMS FOR SRC INDEXING

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Date Produced	06/24/99	Date Received	06/28/99
		TSCA Section	8E
Submitting Organization	DOW CHEM CO		
Contractor			
Document Title	INITIAL SUBMISSION: LETTER FROM DOW CHEM CO TO USEPA RE: ORAL REPRODUCTIVE TOXICITY STUDY OF 1,3-PROPYLENEDIAMINETETRAACETIC ACID IN RATS, DATED 06/24/99		
Chemical Category	1,3-PROPYLENEDIAMINETETRAACETIC ACID		

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23862

The Dow Chemical Company
Midland, Michigan 48674

2030 DOW CENTER
June 24, 1999

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CERTIFIED MAIL--RETURN RECEIPT
REQUESTED



8EHQ-99-14485

CONTAINS NO CONFIDENTIAL
BUSINESS INFORMATION

Document Processing Center (TS-790)
Office of Toxic Substances
U.S. Environmental Protection Agency
401 M Street, SW
Washington, D.C. 20460
Attn: 8(e) Coordinator

Contains No CBI

Re: 1,3-Propylenediaminetetraacetic acid
CAS Reg. No. 1939-36-2

Dear Sir/Madam:

The following information is being submitted by The Dow Chemical Company (Dow) pursuant to current guidance issued by EPA indicating EPA's interpretation of Section 8(e) of the Toxic Substance Control Act. Dow has made no determination as to whether a significant risk of injury to health or the environment is actually presented by the findings.

Groups of 30 CD Sprague-Dawley rats/sex were given diets formulated to supply 0, 10, 60 or 300 mg/kg body weight/day seven days per week for 10 weeks prior to breeding with continuation through breeding (two weeks), gestation (three weeks) and lactation (three weeks) for a one generation dietary reproduction toxicity study. Preliminary findings at the 300 mg/kg/day of the test material show decreases in reproductive parameters (reduced fertility, litter size and pup survival) and histopathologic evidence of atrophy of testes and parakeratosis of esophagus, stomach and skin. These effects are predicted by the anticipated decrease in serum zinc levels found in the maternal animals. At the 60 mg/kg/day dose level no morphologic effects are noted.

The histopathologic lesions present in the testes and effects upon the stratified squamous epithelium were consistent with



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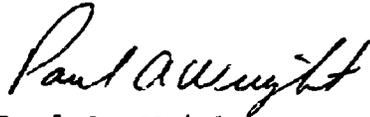
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Environmental Protection Agency
Attn: 8(e) Coordinator
June 24, 1999
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zinc deficiency described in the literature conducted with other chelating agents.

No written report of these results is yet available.

Sincerely,



Paul A. Wright
Counsel
Legal Department
517/636-1853