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July 12, 1991

8EHQ-0791-1047 FLWP  
88-900000 217 : PDCN

TSCA Document Processing Center (TS-790)  
Room L-100  
Office of Pesticides and Toxic Substances  
U.S. Environmental Protection Agency  
Attn: TSCA Section 8(e) Coordinator  
401 M Street S.W.  
Washington, D.C. 20460

89-910000 306 : DCN



0010349720

Re: Followup Submission to 8EHQ-0890-1047  
TSCA Section 8(e) Notification of Substantial Risk  
Hexamethoxydisilylethane - Followup Submission

2-pages

Dear Sir:

In accordance with the provisions of Section 8(e) of the Toxic Substances Control Act (TSCA), as interpreted in the Statement of Interpretation and Enforcement Policy (40 FR 11110, March 16, 1978), Dow Corning Corporation is submitting the following information as a followup to our Notification of Substantial Risk of August 21, 1990 (8EHQ-0890-1047).

**Chemical Substance:**

Hexamethoxydisilylethane

CASRN 18406-41-2

**Manufacturer:**

Dow Corning Corporation  
2200 West Salzburg Road  
Midland, Michigan 48686-0994

**Cited Study:**

A 14-DAY REPEATED INHALATION TOXICITY STUDY OF  
DOW CORNING® X1-6145A ADDITIVE IN RATS

**Background:**

In an initial followup submission (May 30, 1991), to our original TSCA Section 8(e) Notification of Substantial Risk for hexamethoxydisilylethane (CASRN 18406-41-2), Dow Corning informed EPA of our intention to perform a 14-day repeated inhalation toxicity study of DOW CORNING® X1-6145 Additive in rats, with the anticipated start date for the study being in late June/early July, 1991. We now wish to inform EPA of our study findings.

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**Executive Summary:**

A 14-day repeated inhalation toxicity study was initiated with DOW CORNING® X1-6145A Additive (hexamethoxydisilylethane) on July 8, 1991. One control and two treatment groups of five male and five female rats each were exposed to target concentrations of 0, 3, and 10 ppm hexamethoxydisilylethane for six hours/day. One male rat from the 10 ppm group died on the second day of the study. The other exposed animals from the 10 ppm group and two rats from the 3 ppm group experienced severe respiratory distress on the second day of the study. On the recommendation of the attending veterinarian, the study was terminated and the rats were necropsied and examined grossly. The tissues were collected and saved for possible further histologic examination.

**Actions:**

The final report from the cited inhalation toxicity study will be submitted to EPA upon completion.

Dow Corning will notify EPA of any further pertinent information that may be developed concerning this chemical substance.

If you require further information concerning this notification of substantial risk, please contact Dr. Rhys G. Daniels, Regulatory Compliance Specialist, Dow Corning Product Safety and Regulatory Compliance Department, at the address provided below or by telephone at 517-496-4222.

Sincerely,

*Forrest Stark*

Dr. Forrest O. Stark  
U.S. Area Vice-President  
Director of Health and Environmental Sciences

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