DOW CORNING

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March 19, 1992

8EHQ-0392-1047 SUPP

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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

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

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 preliminary information from an ongoing study as a followup to our Notification of Substantial Risk of August 10, 1990 (8EHQ-0890-1047).

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EPA-OTS

0010202170

Chemical Substance:

Hexamethoxydisilylethane
CASRN 18406-41-2

Manufacturer:

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

Ongoing Study:

A FOURTEEN-DAY REPEATED DOSE INHALATION TOXICITY STUDY OF DOW CORNING® XI-6145A ADDITIVE IN RATS

Executive Summary:

DOW CORNING® XI-6145A Additive, chemically described as hexamethoxydisilylethane (CASRN 18406-41-2, HMDSE), previously has been demonstrated to be a respiratory toxicant at very low concentrations (3-10 ppm) in rats. In order to establish a No Observed Effect Level (NOEL), a 14-day repeated dose inhalation toxicity study was performed in rats employing 0.5, 1.0 and 2.0 ppm dose levels of the test material.

CONTAINS NO CBI

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Preliminary data from the study indicate that test animals which were repeatedly dosed at 1.0 and 2.0 ppm of HMDSE and then sacrificed showed signs of respiratory effects which were the same as those noted in two previous inhalation toxicity studies with this chemical substance in rats which we have reported to the Agency under TSCA Section 8(e) (8EHQ-0890-1047 Initial & Supplement (August 10, 1990 and August 21, 1990) and a followup submission of January 8, 1992). Animals dosed with 0.5 ppm of HMDSE for four days showed the same response and accordingly were sacrificed. Animals exposed to a single dose of the test material at 0.5 ppm exhibited some initial respiratory effects, but these subsided and the animals recovered.

Actions:

Dow Corning will provide EPA with a copy of the study on completion of the final report and will inform the Agency of any 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 O. Stark

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