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August 10, 1990

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

50 AUG 14 AM 8:38

Re: TSCA Section 8(e) Notification of Substantial Risk
3,3,6,6-Tetramethoxy-2,7-dioxa-3,6-disilaoctane
(1,2-Bis(trimethoxysilyl)ethane, Hexamethoxydisilyl ethane)

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 Notification of Substantial Risk.

Chemical Substance

2,7-Dioxa-3,6-disilaoctane, 3,3,6,6-tetramethoxy-

CASRN: 18406-41-2

Manufacturer

Dow Corning Corporation
Midland, Michigan 48686-0994

Study

The following study will be submitted on completion of the final report.

AN ACUTE VAPOR PHASE INHALATION TOXICITY STUDY OF DOW CORNING® X1-6145A ADDITIVE IN RATS

Executive Summary

An acute vapor inhalation toxicity study was conducted with DOW CORNING® X1-6145A Additive, chemically identified as hexamethoxydisilylethane (CASRN 18406-41-2), in the Sprague-Dawley rat.

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Males and female rats were exposed to 0 and 0.92 mg/L of the test material for four hours. No mortality or apparent abnormalities were observed in the control or test group animals during exposure or the first day. Within twenty-four hours, however, test animals exhibited labored breathing and exhaustion. All test group animals were sacrificed in an moribund condition approximately twenty-four hours after exposure.

Gross pathological examination indicated treatment-related lung changes and gas distension of the digestive tract in both male and female animals, while several female animals exhibited lung mottling.

These results suggest that the test material poses a significant acute inhalation hazard ($LC_{50} < 0.92$ mg/L in the Sprague-Dawley rat) under the conditions of this study.

Actions

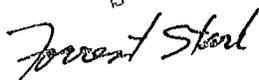
Dow Corning will notify customers of the results of this study.

Appropriate changes will be made in the Material Safety Data Sheet (MSDS) for DOW CORNING® X1-6145A Additive.

Dow Corning will notify the Agency 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 given below or by telephone at 517-496-4222.

Sincerely,



Dr. Forrest O. Stark
U. S. Area Vice-President
Director of Health and Environmental Sciences
Dow Corning Corporation
2200 W. Salzburg Road
Midland, MI 48686-0994