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Microfiche No.		OTS0559835			
New Doc ID	88000000028	Old Doc ID	8EHQ-1199-14588		
Date Produced	10/04/99	Date Received	11/10/99	TSCA Section	8E
Submitting Organization		PPG INDUSTRIES INC			
Contractor					
Document Title		INITIAL SUBMISSION: LETTER FROM PPG INDUS INC TO USEPA REPORTING PRELIM RESULTS FROM ACUTE (LC50) INHALATION STUDY WITH SILANE-TREATED PRECIPITATED AMORPHOUS SILICA, DATED 110499			
Chemical Category		SILANE-TREATED PRECIPITATED AMORPHOUS SILICA			

**INITIAL
SUB-
MISSION**

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Contains No CBI

PPG Industries, Inc. One PPG Place Pittsburgh, Pennsylvania 15272 (412) 434-2801

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Environmental Health and Safety
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November 4, 1999

OPPT Document Control Officer
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Attn: 8(e) Coordinator
Office of Pollution Protection & Toxic Substances
Environmental Protection Agency
401 M Street SW
Washington, DC 20460



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MR 29452



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Dear OPPT Document Control Officer:

PPG Industries, Inc. has determined that the preliminary results of an acute inhalation study conducted on a silane-treated precipitated amorphous silica being investigated for research and development (R&D) purposes may be subject to reporting under TSCA Section 8(e). The preliminary information provided was recently obtained by PPG Industries from an ongoing but as yet incomplete acute (LC₅₀) inhalation study.

The test material was tested in a standard acute 4-hour inhalation toxicity test according to OECD Guideline 403 and EPA OPPTS Guideline 870.1300. The study was conducted in conformance with EPA TSCA and OECD Good Laboratory Practices. The following table shows the mortality associated with various exposure concentrations:

Concentration (mg/L)	Male Mortality	Female Mortality	Total Mortality
0.06	1/5	0/5	1/10
1.1	5/5	4/5	9/10
6.2	5/5	5/5	10/10

The concentration, that resulted in mortality of 50% of the animals (LC₅₀ value), was calculated to be 0.299 mg/L with 95% confidence limits of 0.148 - 0.604 mg/L. The mass median aerodynamic diameter for exposures ranged from 1.17 - 2.47 with a geometric standard deviation of approximately 5. Clinical signs noted in the animals included labored breathing, red nasal discharge, and gasping.

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At necropsy, the presence of the test material was noted in the lungs of the animals. Evaluation of the respiratory tract of animals that survived 24 hours following exposure is currently underway.

The following actions were or will be undertaken:

- 1) A copy of the final report will be forwarded to the EPA.
- 2) This information was communicated to PPG's Research and Development staff that are working with the material. Dow Corning Corporation, the future customer of the material, was also notified of the results of this study.
- 3) All individuals handling this material at PPG are required to wear high efficiency particulate respirators.
- 4) These results are being incorporated into the Material Safety Data Sheet for this product.

If you have any questions, please contact me at (412) 434 - 2801.

Sincerely,



James Barter, Ph.D., DABT

Cc: H. Burleigh-Flayer - GO
M. Fontenot - MTC
R. K. Lee - GO
M. Reilly - GO
C. Reese - Dow Corning
C. Kary - Dow Corning
P. Ziegler - AP

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