

**THE UNIVERSITY OF MISSISSIPPI MEDICAL CENTER**

2500 North State Street  
JACKSON, MISSISSIPPI 39216

Department of Pharmacology  
And Toxicology

July 26, 1989

Requestor: Therma-Cote, Inc,

Request: Test smoke from burning insulating ceramic coating for toxic effects on animals.

Procedures:

- A. 5 grams of dried coating was burned for approximately 4 minutes at a temperature of 540°C. Smoke from tile burning material was pumped into chamber containing 10 mice weighing approximately 30 grams each. The burn was stopped when the smoke began to clear. The mice remained in the chamber for 5 minutes after the pump was stopped.
- B. Procedures A was repeated, using 5 grams of the dried material, at a temperature of 700° C.
- C. 6 grams of the semi-solid (water preparation) was burned at 700° C. The same conditions applied in procedures A and B were repeated.

Observations: The mice in procedures A, B and C were observed during the burnings of the material, for five minutes after the burnings and at 24 hours after their exposure to the fumes. All exposed animals survived without signs of sickness or irritation other than the usual irritation from smoke inhalation.

Submitted by:  
**Arthur S. Hume, Ph.D.**