



UNION CARBIDE CORPORATION • METALS DIVISION • P. O. BOX 579 • NIAGARA FALLS, N.Y. 14302 • TEL: 716-278-3376

November 22, 1977

Mr. Lewis B. Weisfeld
Cincinnati Milacron
4701 Marburg Avenue
Cincinnati, OH 45209

File

Dear Mr. Weisfeld:

Five (5) copies of the complete text of the paper I presented at the recent Denver meeting are enclosed. We would like to request that it be considered for publication in one of the Society of Plastics Engineers journals.

It was a pleasure to appear on your program and I enjoyed the meeting very much.

Very truly yours,

Harrison B. Rhodes

Harrison B. Rhodes
Manager - Technology

HBR/rmm
Encs.

BCC: Messrs. J. F. Collins J. L. Myers
 T. W. Carmody ~~W.~~ C. Thurber
 R. F. X. Fusaro

This is the final edited version. The talk presented was abstracted from this.

HBR

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CONSUMER "SAFETY" IN PLASTICS SYSTEMS
CONTAINING BOUND ASBESTOS FIBERS

Harrison B. Rhodes, Ph.D.
Technology Manager
"Calidria" Asbestos

UNION CARBIDE CORPORATION
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Niagara Falls, New York
November 9, 1977

ABSTRACT

Asbestos consumption in the United States in 1976 was 726,000 tons, mostly chrysotile. Of this total, 65% was used in a wide variety of plastics-based materials. Extensive airborne asbestos exposure data are presented for tape joint compounds, roofing products, and coatings. The highest consumer exposure found was 1.2 fibers/cc ceiling and only several tenths of a fiber/cc on a time-weighted average basis. A risk estimation procedure devised by the Consumer Product Safety Commission was used to calculate the risk to the consumer from these highest levels measured, which occurred during drywall installation. The risk was found to be only very slightly different from zero, but the CPSC is moving to ban asbestos in this application on the basis of a regulatory philosophy of "no safe level for a carcinogen" and "absolute zero risk" as an appropriate regulatory policy. The consequences of this regulatory approach are discussed and an alternative is proposed.