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LETTER TO THE EDITOR
W.R. TROY

SAFETY OF CONSUMER COSMETIC TALC PRODUCTS

In a paper entitled "Consumer Talcums and Powders: Mineral and Chemical Characterization" published in the *Journal of Toxicology and Environmental Health* (2:255-284, 1976), Rohl et al. indicated that the disease potential of consumer talc products is unknown and needs investigation. Rohl et al. cite instances of pulmonary disease associated with exposure to talc dusts but fail to identify the composition of the talc dusts and the amounts to which subjects were exposed. Recently a distinction has been made between the composition of industrial talcs and cosmetic grade talcs. Industrial grade talcs are mixed mineral dusts usually containing limited amounts of talc mineral dust, which may be associated with varying amounts of asbestos and/or silica. Cosmetic grade talc consists typically of 90% mineral talc dust associated with mineral impurities as minor constituents but free of detectable fibrous asbestos minerals (Hamer et al., 1976).

The pulmonary fibrosis associated with talc dust as cited by Rohl et al. has been predominantly reported to occur among employees working in industrial environments prior to improvements in working conditions. For instance, in the report by Rubino et al. (1976) the talc miners were exposed to talc dust known to contain significant amounts of silica.

The example of increased pulmonary cancer mentioned by Rohl et al. was reported in miners exposed to industrial talc dust containing anthophyllite and tremolite (Kleinfeld et al., 1967). Kleinfeld and co-workers (Kleinfeld, 1973; Kleinfeld et al., 1974), however, later reported that the incidence of pulmonary cancer in the mine employees dropped to the normal level for their age following improvements in the working environment.

The biological activity of cosmetic grade talc dust has been evaluated in recent years in controlled animal dust exposure studies and epidemiological studies conducted in mine employees exposed to cosmetic grade talc dust (Hildick-Smith, 1976a).

In one study, hamsters were exposed to cosmetic grade talc dust at a weekly exposure level approximately 1,700 times the amount of talc dust to which an infant would be exposed in a week (Hildick-Smith, 1976a).