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Chemical Hygiene Fellowship
MELLON INSTITUTE
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# Calidria Asbestos-Resin Grade RG 244

## Tracheal Insufflation of Rat Lungs with Interpretation of Pathology after 30, 60, 90 and 180 Days

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For: UNION CARBIDE CORPORATION, Chemicals and Plastics Operations Division

## Sample

A 500-gram sample of Resin Grade RG 244 UCC Calidria Asbestos was received 11-30-70, from King City, California, pursuant to arrangements made by Paul McDaniel of the New York Office. The sample was identified by the Chemical Hygiene Fellowship #33-251.

## Tracheal Insufflation

A 1% (W/V) suspension of the RG 244 sample was prepared in 0.85% saline. All needles, syringes and suspensions were sterilized prior to use. Either 1 ml or 0.5 ml amounts of the sterile 1% suspension were injected into the rat lung through the trachea, exposed by blunt dissection, after a midline cervical incision. Following injection of these 200 to 300 gram, male albino, Harlan Wistar rats the incisions were closed with Michael wound clamps until healing ensued.

A total of 13 rats were dosed with 1 ml and 15 with 0.5 ml of the 1% suspension while 11 control rats received 1 ml of sterile 0.85% NaCl. Three rats from each asbestos dosed group and 2 controls were killed for histopathologic examination of the lung after intervals of 30, 60 and 90 days which left groups of 4, 6 and 5 rats on the 1 ml, 0.5 ml asbestos and control for the 180 day sacrifice.

## Summary of Microscopic Pathology Found 30, 60, 90 and 180 Days Following Tracheal Insufflation of Rats

The 30-day pathology was marked by the presence of granulation tissue with thickening of the structural elements of the lung (stroma) and the accumulation of giant cells often associated with foreign bodies.

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