Monsanto INDUSTRIAL CHEMICALS CO.

FROM (NAME & LOCATION) Charles S. Shull

DATE May 31, 1972

SUBJECT Mocan Sample of S-38

REFERENCE

TO : B. A. Murray (Monsanto Canada Ltd.)
Woodbridge Plant

cc: M. W. Farrar - R2E
J. R. Darby - 1760
R. C. Antonio - Woodbridge
L. O. Raether - B3NB
N. W. Touchette - 1760
R. H. Mills - Q2C

This memo is to confirm the information given to you by phone on May 30, 1972.

Both odor and color of the S-38 sample suggests that this oil is a "still-bottoms" product.

The infra red spectra is not very conclusive since there is evidence of amide, sulfone, ether and ester structures all being present. We feel that the polymeric fraction is probably a polyurethane or urethane-ether but the sulfone is not excluded. The I.R. is very weak in ester absorption. This is in line with both the low saponification value and with our observation that only 19% of the substance elutes from the GLC column. The elution times for this portion are in the range of C_6 to C_9 dialkyl phthalates. The other 81% is presumably the polymeric portion.

The S-38 sample gives a negative Beilstein test from which we conclude that no chlorine is present.

I am forwarding the samples to N. W. Touchette for DK analysis.

Charles S. Shull

CSS:gw

TIME: 4 hours

DSW 587612

STLCOPCB4092948