Monsanto OBCAN 6

FROM (NAME & LOCATION) A. W. Morgan - St. Louis Organic Research

DATE : July 15, 1969

SUBJECT : Polysulfides/Technique and Construction, Montreal

REFERENCE :

TO : Cumming Paton
CPATO

cc:

M. W. Farrar	Res. 1
J. R. Darby	Res. 1
W. F. Waychoff	WWAYC
J. K. Lilly	JLILL
C. P. Farley/P. R. Graham	CFARL
J. A. Cannon	Res. 3
A. W. M. Coaker	Res. 3
R. H. Mills	Res. 3
N. W. Touchette	Res. 3

Your June 23, 1969 call report concerning Technique and Construction discussed the problem of cure retardation when Epon 1001 is added to Polysulfide LP-32. By inference incomplete cure was blamed on catalyst pastes made with Santicizer 160 or Aroclor 1254. It is well known that epoxies and mercaptans are mutually reactive and compatible, and that the product of this reaction is a sulfide. If the kinetics of this reaction are favored, it is possible that addition of the Epon 1001 caps the growing chains with terminating sulfides, which results in considerable low molecular weight material and gives the appearance of having incomplete cure. Addition of a polyamide amine as Versamid 115 (0.6 parts to 1 part Epon 1001) should improve the situation. I can see no reason why catalyst pastes made with Aroclor 1254 or Santicizer 160 should be major contributors to this problem. Please call if you have any questions.

A. W. Morgan

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