

Monsanto

FROM (NAME & LOCATION) Jan Smoke - New York Office

DATE January 28, 1969
SUBJECT Plasticizer Evaluation Program
REFERENCE Thiokol Chemical Co.
Trenton, New Jersey
TO Cumming Paton
St. Louis

CC: E. H. Fording - N. Y.

Cumming, Dan Smith requests that we do some laboratory work on plasticizers we feel have potential in polysulfide formulation. The laboratory work should be similar to that reported in the write-up presented to Thiokol in October, 1967 with the following changes:*

	<u>PHR</u>	<u>FORMULATION</u>
Thiokol LP-32*	100	100
CaCO ₃ *	30	
Plasticizer	25	
Sulfur*	0.1	
<u>Catalyst System</u>		
Lead Dioxide	50	15
Stearic Acid	5	
Plasticizer	45	

The following tests should be made:.

1. Miscibility of plasticizer in LP-32 at levels of 15%, 30% and 50% plasticizer. (Shake test with adequate settling period)
2. Tensile, elongation, and modulus on cured samples.
3. Volatility tests at 86°C and 70°C. Rather than charcoal volatility, test should be conducted according to attached Thiokol standard test.
4. Instead of water sensitivity, check physical properties after 3 and 7 days immersion in 120°F water.
5. Loop compatibility, U.V. and heat stability.

DSW 588433

STLCOPCB4093769

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Above tests should be performed on Santicizer 261 and any other plasticizers we believe will provide lower volatility, improved adhesion and better physicals than the above formulation using Aroclor 1254.

Thanks for your help.

Jan Smoke

JS/rg

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