



INTERNAL CORRESPONDENCE

RECEIVED

JUN 16 1966

R. N. Wheeler

CHEMICALS DIVISION

P. O. BOX 8004

SOUTH CHARLESTON, WEST VIRGINIA 25303

To (Name) Mr. C. P. Bennett
 Company Building 189
 Location SOUTH CHARLESTON PLANT

Date June 13, 1966

Originating Dept. Quality Control Laboratory

Answering letter date

Copy to Mr. M. A. Aitken, 106
 Mr. L. E. Hall, 82
 Mr. J. W. Kearns, 106
 Mr. G. R. Stringer, 107
 Mr. W. H. Swango, 107
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Subject Unknown from Vinyl Chloride Unit

File: 35590-9C1-D057

Dear Mr. Bennett:

The unknown light-gray, solid material removed from the bottom of the vinyl chloride converter was found to consist of 81 per cent mercuric chloride and 11.3 per cent mercurous chloride. The black particles interspersed throughout the gray solid was tentatively identified as carbon.

In addition to the major components, the unknown material contained a minor amount of iron and trace amounts of aluminum, nickel, copper, manganese, magnesium and silicon.

The difference in the solubility characteristics of mercuric and mercurous chloride in ethanol and ethyl ether permitted a simple way to separate the two salts. Wet chemical qualitative and quantitative procedures were then used for identification of the salts. The Emission Spectrograph was used to identify the trace metals.

If we can be of further service, please advise.

Very truly yours,

A. G. Schoonover
 A. G. Schoonover

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