THERMAL SUBSIDIARY OF COSMODYNE
RESEARCH & ENGINEERING CORP.
Conshohocken, Pa. 19428 · (215) 828-5400 · Canada: Trecan Limited, Cooksville, Ont.

May 8, 1969

Monsanto Company
800 N. Lindbergh Blvd.
St. Louis, Missouri 63166

Attention: Mr. A. F. Pier
Engineering Specialist
Air Pollution Control

Gentlemen:

This is in reply to your letter of April 28th, regarding the evaluation of the chlorinated hydrocarbon sample. The sample has been received and we have made a preliminary evaluation of it.

The liquid sample that was received was labeled "Chlorinated Hydrocarbon No. 42 - Lot No. KK-454". Your letter mentioned that it contains 41% chlorine.

The physical characteristics of the liquid was that it was a clear liquid in appearance and a viscosity of about No. 3 oil. We did not actually take a viscosity measurement, since it presents no problem in either pumping or atomizing.

In our laboratory evaluation, we found that we could not burn the liquid unless we had auxiliary fuel with it. As soon as the fuel was turned off, combustion ceased. However, with a small amount of auxiliary fuel the waste did burn and burned cleanly. This, of course, was a visual observation and we did not attempt to take any samples to insure that all of the chlorine was converted to hydrochloric acid.

In a laboratory set-up, this is difficult if not impossible to do and we only attempted to determine what would be required to properly burn it.

From the laboratory evaluation, we can say that the material can be incinerated and will use a minimum amount of fuel for incineration. The actual amount could be determined by an actual pilot scale test, or if we were to know more about the characteristics of the material such as the chemical formula and heating value.

We hope this gives you the preliminary information you require. If you would wish to discuss it in any more detail, please do not hesitate to contact us directly or Bob Schwaig at the address shown below. We

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appreciate your interest in Thermal, and look forward to working with you further on this project.

Very truly yours,

THERMAL Research & Engineering Corp.

Evans Andreacola
Product Manager

EA:cmr

cc: Schwaig Engr. & Equip. Co.
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