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Via Air Mail

OFFICE FOR EMERGENCY MANAGEMENT

NATIONAL DEFENSE RESEARCH COMMITTEE  
OF THE

729794

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30 Charles River Road, Cambridge, Massachusetts

IRVIN STEWART, Executive Secretary FSB-HBS

December 7, 1942

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Dr. Melvin Calvin  
Department of Chemistry  
University of California  
Berkeley, California

Dear Dr. Calvin:

I am sending you under separate cover via parcel post two small vials marked "Ethomine, Red, Not Activated" and "Ethomine, Yellow, Not Activated" (di 3-ethoxy, salicylaethylenediimine cobalt).

These two compounds are of interest in that either may be prepared in 25-30 lb. batches, as desired, whereas only the red form has thus far been produced by Rumford in 1 mol batches. Both appear to oxygenate at the same rate and adsorb and desorb at the same temperatures. Both compounds are definitely crystalline, the yellow being needles, apparently monoclinic, and the red being diamond-shaped plates, apparently in the orthorhombic system. Both are heavily twinned. These can be activated by heating to 120°C. for 30-60 min.

In sending these samples to you we would like to have you examine them optically and by X-ray and give us your opinions and comments.

We do not have all the data on this compound yet, as it is still under test. It shows great promise for high-altitude use in airplanes. Adsorption takes place as high as 50°C. and can be readily desorbed in partial vacuo at 100°C. with a very short cycle.

If you desire an additional quantity I can send it to you.

With kind regards,

Very truly yours

*F. S. Bacon*

F. S. Bacon  
Assistant to the Chairman  
E. P. Stevenson  
Section B-7  
Division B

Enclosure (letter of 12/2/42  
from D.B. Curll, Jr.)

CC - Drs. Diehl, Furnas, Prentiss

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CHANGED TO Unclassified

BY AUTH. CG DAR-143.1  
BY David S. Curll ADC 4/3/96  
DATE 4/3/96  
By NSA/ADM/ADD 3-13 '96

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