

DEPARTMENT OF COMMERCE  
BUREAU OF STANDARDS  
WASHINGTON

ADDRESS REPLY TO  
BUREAU OF STANDARDS

October 30, 1917.

EXEMPT from automatic declassification  
per E.O. 11652, Sec. 5(E)(2)  
REASON / CTS 28, JAN 1978  
Name: A Agency: CTS Date: 2020  
Reason: CTS-4 Pq1 Review on:

Memorandum for Mr Frank V. Martenek,

I am transmitting seven samples which seem to be the most suitable in the list which you submitted. They are as follows:

	--1--	
Sulphuric acid (1-5)	.....	100 cc.
Sugar	.....	2 gm
<i>Heating</i>	--2--	
Water	.....	90 cc.
Cobalt Chloride	.....	10 gm
Glycerol	.....	2 cc.
	--3--	
Water	.....	100 cc.
Ammonium chloride	.....	15 gm
	--4--	
Water	.....	100 cc.
Copper Nitrate	.....	10 gm.
<i>Heating</i>	--5--	
Water	.....	100 cc.
Potassium bromide	.....	3 gm
Copper sulphate	.....	3 gm
<i>Heating</i>	--6--	
Water	.....	100 cc.
Nickel chloride	.....	2.5 gm
Nickel nitrate	.....	2.5 gm
	--7--	
Nickel chloride	.....	3 gm
Cobalt chloride	.....	3 gm
Water	.....	100 cc.

Samples 1, 4, and 5 will doubtless exert a very corrosive action on steel pens, and therefore if suitable in other respects would have to be used with a quill pen.

If I observe any other samples which seem to possess any particular advantage, I will let you know, or if you will tell me just what characteristics you desire such a product to have, I will try to reproduce it,

Respectfully,

*Am Heingelmann*  
Asst. Chemist.

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REGRADED  
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By: **CR/GT**  
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