

## **Executive Summary**

This month, I had three launch attempts of the MkI Viper rocket glider with no ignition. I surmise that I have reached the lower concentration limit for infusion of  $\text{KMnO}_4$  into PLA. As such, I'm returning to a concentration of 50 gm/L.

## **Technical Stuff**

This month, I had three launch attempts of the MkI Viper rocket glider with no ignition. I surmise that I have reached the lower concentration limit for infusion of  $\text{KMnO}_4$  into PLA. The fuel cores had been in a dry bag since August 8, 2025. The HTP concentration was  $\sim 85\%$ . I used 40 gm/L of  $\text{KMnO}_4$  to infuse into the PLA fuel cores. Using the fuel cores from the first infusion at 40 gm/L, I had ignition. Using the fuel cores from the second infusion at 40 gm/L, I did not have ignition. As such, I'm returning to a concentration of 50 gm/L. Using the fuel cores from the fifth infusion at 50 gm/L, I had three successful ignitions.

Next month, I'll continue to launch the Mk I Viper. My objective is to successfully deploy the para-glider.