

# **H.M.S. Beagle**

## **Formula #040605-01**

### **“Zinc Dust & Sulfur Solid Rocket Propellant”**

This simple and relatively safe model rocket propellant is made by mixing together equal weights of zinc dust and powdered sulfur. The components must be measured by weight since they are very different densities. A teaspoonful of zinc dust, for instance weights approximately 65 grams whereas a teaspoon of sulfur weights approximately 4 grams. The weight/weight formula therefore is as follows

1. Zinc, dust.....50%
2. Sulfur..... 50%

An actual working formula for 1lb of this mixture would then be as follows:

1. Zinc, dust.....227.3 g
2. Sulfur.....227.3 g

The zinc and sulfur must be ground and sifted separately to insure there are no lumps and that both are in the finest powdered form. Once powdered and weighed they can be mixed together in a dry container by simply shaking or stirring. Use extreme caution when mixing; the powder is readily ignited by a flame or static electrical discharge.