

# H-3 Compound

**NOTE: This sheet must accompany bottle at all times.**

Preparation:

Note: Do Not Use H-3 in a manor inconsistent with the manufacturers labeling.

H-3 Compound will come to you in three parts:

- 1.) Binder, sealed glass jar, labeled "Binder".
- 2.) The fuel mix (white plastic jar), labeled "QuickBurst H-3 Compound".
- 3.) The oxidizer, KCLO3 (Plastic re-sealable bag). All are packed and labeled separately. Do not use any of the components near an open flame, do not smoke, and do not generate sparks.
- 4.) Wooden stir stick.

Here's how to mix it up.

1. Add the binder (glass jar) to the white plastic jar containing the fuel mix. Stir well using Popsicle stick or other no spark producing stir.
2. Fill the empty glass jar about half full of acetone and shake well. Then add the contents of the glass jar into the white fuel mix jar. You are rinsing the glass jar with acetone to remove all of the contents and get them added to the fuel mix.
3. Add 1teaspoon of fresh clean acetone to the white plastic jar containing the fuel mix and binder. It will now form a black viscous liquid about the consistency of pancake batter, the mix should cling to the e-match head. You need a covering that covers the end of the head, it doesn't take much. Be sure to use a tablespoon measure that is resistant to acetone. Acetone is available at most Hardware or Home Improvement outlets.
4. Remove and discard the desiccant pack from the OX bag. Roll a pencil or dowel rod over the Oxidizer packet to remove any lumps.
5. Add the oxidizer packet, Labeled KCLO3.
6. Stir well.
7. Done.
8. If needed thin to desired consistency with acetone. If the mix gets too thin for your liking, simply stir while blowing over the jar until your desired consistency is reached. I try to keep it about the consistency of pancake batter, maybe a little thicker. If your mix is too thick thin with small additions of acetone the acetone will evaporate quickly. When you dip the e-match heads the compound should be thick enough to cling forming a nice head on the match chip.
9. It may be necessary to thin H-3 Compound as you work. It is also a good idea to stir the mix frequently, the oxidizer does not dissolve into the solution. Rather, it suspends in the mix and must be stirred to stay in suspension.
10. Avoid Acetone vapor, it is flammable and may cause drowsiness.
11. Read warnings on Acetone can.
12. H3 Compound will dry out and become a solid over time. You can re-constitute the dip by adding acetone and letting sit overnight. Then stir as described above. The best policy is to keep H3 Compound sealed tightly and add about a teaspoon of acetone per month. This will keep it from becoming a solid. A good idea is to store the completed bottle in a sealed Mason jar; this will help keep it from drying out.
13. The mix is ready immediately after mixing.

This product's intended use is limited to Amateur Rocketry only. Do not use any QuickBurst product outside of its intended use.

### Dipping E-Match Blanks

This is so simple that after you have done it a few times you will be an expert. Just follow the steps described below.

#### Step 1

You will need e-match blanks, preferably 50 gauge nickel chromium bridged blanks with a resistance of about 2 Ohms. These are available from the good folks at Apogee Components (<https://www.apogeerockets.com/>). Resistance can vary, sometimes it will be a bit more and sometimes it will be a bit less.

#### Step 2

Dip the end of the blank about halfway up the head of the match. See photo at [http://www.quickburst.net/images/ematch\\_head.jpg](http://www.quickburst.net/images/ematch_head.jpg)

#### Step 3

Hang to dry overnight.

Finished.

For best results, do not coat the finished matches with anything, they are fine the way they are. Make sure your match is surrounded by your ejection charge compound. A cardboard canister is perfect. Place nonflammable packing between the top of the ejection charge and the top of your canister and secure with masking tape. This will prevent the charge from moving around during the stress of flight.

H-3 is designed to be used for model rocket ignition only.

David Bachelder

Need Supplies?

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Bench Test, be sure.