

In the name of Allah, the Most Gracious, the Most Merciful

Al-Saqri Institute for Military Sciences presents you

## cheap way to prepare betaine explosives *PETN*



A low-cost version of betaine explosives can be manufactured without alerting chemical vendors. The chemicals can be purchased to manufacture the acid and mixed with simple sugar to produce this explosive. The recipe will produce enough to make a tablet-size filling. Increasing the size 100 times will allow enough material to be produced to manufacture an explosive belt (boom vest).

### Required chemicals:

- muriatic acid (hydrogen chloride)
- aEpsom salt (magnesium sulfate)
- Calcium Nitrate Fertilizer
- erythritol sugar
- baking soda (sodium bicarbonate)(

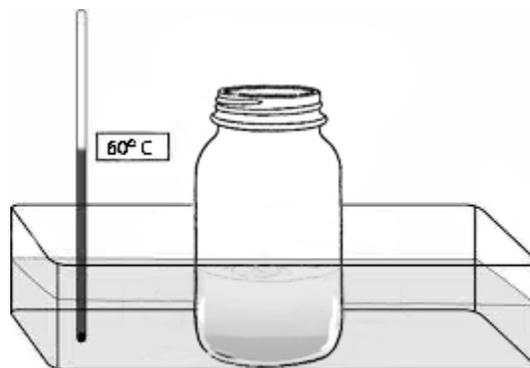
### Required equipment:

- Small bottle size 2 pint
- a 2 liter aluminum container
- pyrex tray) *Pyrex*
- a small cooking pot
- i hot bug
- Coffee filter and funnel

Preparation:

#### **Step 1 - Prepare the sulfuric acid solution**

- Pour 100 ml of muriatic acid into a 1 pint bottle (equivalent to 2 cups) and add 30 g of Epsom salts.
- Put the mixture in a warm water bath. Keep the temperature under 60M°.



- Call Mix in the bath for 30 minutes after the solid has dissolved to make sure that all the salts have turned into acid..
- After 30 minutes place the sulfuric acid solution in an ice bath to cool.

#### **Step 2 - Make up a nitrate solution**

- melt 04g of calcium nitrate in 200 ml of water in a 1-pint bottle.
- melt 20g of erythritol in nitrite solution.
- Place the solution in an ice bath until it cools.

#### **Step 3 - Converting Sugar into Sugar Nitrate**

- Add the sulfuric acid solution by dropper to the nitrate solution. Keep cool while adding.

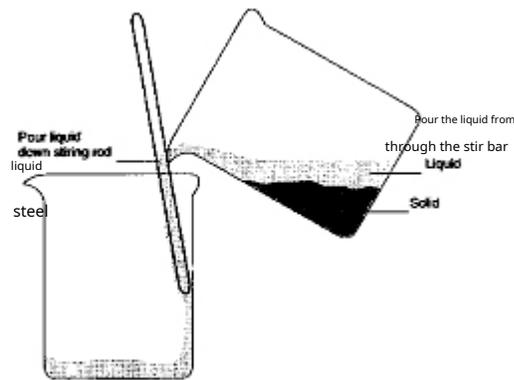


- As the drops continue to be added the solution will start to become cloudy.
- It will take 30 minutes to add all the acid solution.
- Keep the solution cool for 30 minutes after all the acid has been added and stir every now and then.

**Step 4 Pour the final solution into 1 liter of ice water into a 2 liter aluminum container.**

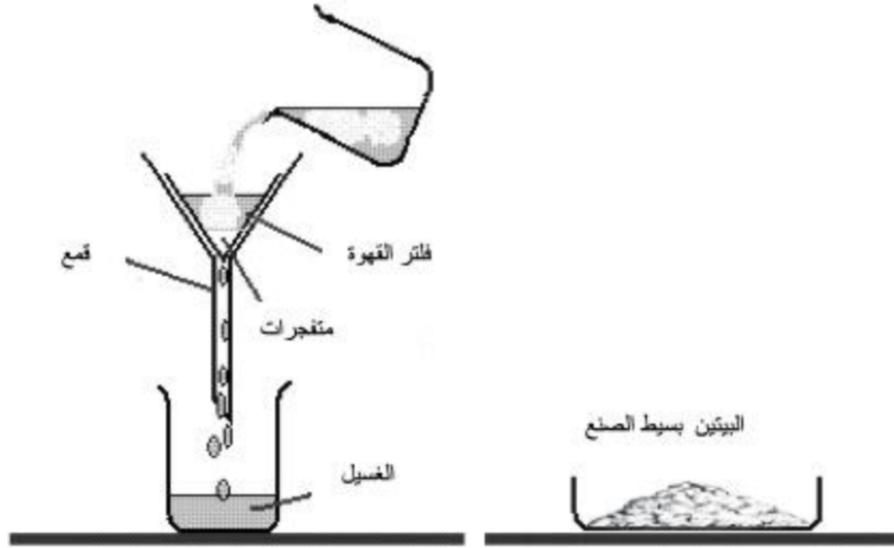
**Step 5 - Collect the betaine)PETM**

- After the explosive has settled to the bottom of the container, carefully pour the collected liquid over it.



- Pour 500 ml of ice water over the remaining solid and stir. Let the solid material settle back to the bottom.
- Pour the water for the second wash.
- Pour 500 ml of baking soda solution over the solid. Allow it to settle and then pour in the layer of water.

**Step 6 - Filter the material through a coffee filter placed in a plastic funnel. Let the betaine dry in sunlight On the coffee filter until the powder falls off the paper.**



God is the guardian of success

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