



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

#AlSaqri\_Foundation\_For\_Military\_Sciences present

Lesson number 6 |Mercury Fulminate



### **Mercury Fulminate:**

- 1- Take Mercury [Hg] using dropper and weigh till you get a gram sample.
- 2-Put this 1 gram of Mercury [Hg] into a beaker #1 containing 10ml – 60 to 70% concentrated Nitric Acid [HNO<sub>3</sub>] and allow to react.
- 3-Now brown colored gases will emit (having no smell, but do not inhale it) allow all gases to finish
- 4-Allow reactions to continue until color of solution becomes brown and the Mercury [Hg] dissolves
- 5-Pour 10ml of isopropanol [isopropyl alcohol, C<sub>3</sub>H<sub>7</sub>OH] into an empty beaker #2.
- 6-Then pour beaker #1 into beaker #2, the Mercury Fulminate [Hg(CNO)<sub>2</sub>] will go grey, and white gases will also be produced. If reaction gets out of control then pour a little amount of methyl alcohol [CH<sub>3</sub>OH] to settle down the reaction.
- 7-Allow these gases to come out and allow reaction to continue until beaker cools down and Mercury Fulminate[Hg(CNO)<sub>2</sub>] settles down which can be of a light yellow

8-Now filter this and wash crystal powder with a solution containing 5 part water and 1 part isopropanol. It is better if this solution is poured to beaker before filtering.

9-Collect crystals and allow drying in sunlight.

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والله ولي التوفيق