

Things You'll Need

- Chemistry goggles
- Gloves
- Mask
- Glass containers
- Distilled water
- Scale
- Plastic spoon
- Ammonium persulfate
- Glass stirring rod

Instructions

1. Put on the gloves, goggles and mask. Ammonium persulfate can cause serious skin irritation and unpleasant or irritating fumes. It can also cause allergic reactions in some people.
2. Pour 100 milliliters of distilled water into a clean glass container. If you want to use the solution immediately, heat the water. The metric system is standard for the sciences, including chemistry, and working with grams and milliliters enables you to calculate ratios more easily. (see Reference 2)
3. Put a clean glass container or disposable container for weighing chemicals onto a scale and tare it, or reduce the weight to zero so the scale does not take the weight of the container into account.
4. Add ammonium persulfate powder to the empty glass container using a clean plastic spoon or a chemistry spoon until you have 10 grams of powder.
5. Carefully add the powder to the container of distilled water and stir thoroughly with a glass stirring rod. The powder makes a clear solution, so stir until you do not see any powder. Make more of the solution, if necessary, until you have enough to cover the item you are etching.