



California State University of Bakersfield, Department of Chemistry

## Blue Goo (Oobleck)



### NGSS Standards:

2-PS1-1. Plan and conduct an investigation to describe and classify different kinds of materials by their observable properties.

5-PS1-3. Make observations and measurements to identify materials based on their properties.

### Introduction:

*This blue goo or Oobleck is a non-Newtonian fluid. That is, it acts like a liquid when being poured, but like a solid when a force is acting on it. You can grab it and then it will ooze out of your hands.*

*Oobleck gets its name from the Dr. Seuss book Bartholomew and the Oobleck where a gooey green substance, Oobleck, fell from the sky and wrecked havoc in the kingdom. Here the Oobleck will be made in a bowl and will likely make a mess, but only because you can get carried away playing with it.*

### Materials:

- 3 cups of corn starch
- 1 ½ cups of water
- 15-20 drops of your choice food coloring

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## **Safety:**

- Always have an adult with you to help you during your experiment.
- Always wear eye protection and gloves when doing chemistry experiments
- Rubbing alcohol is flammable, so it must be kept away from any open flames or heat.
- Conduct this experiment in a well-ventilated area.

## **Procedure:**

1. Pour the three cups of corn starch into a bowl.
2. Add 1-½ cups (240ml) of water.
3. Add about 15-30 drops of food coloring.
4. Mix it all together with your hands and have fun squishing!

## **Data and Observations:**

Record your observations in this space

## **References:**

1. Kidsblogs.nationalgeographic.com.  
<http://kidsblogs.nationalgeographic.com/littlekids/blue-goo.html>. (accessed July 17, 2012)