

SUPER SLIME

CLEAR SLIME

WHAT YOU NEED:

- Polyvinyl alcohol (PVA) solution
- Borax (Sodium tetraborate)
- Beaker or jar
- Food coloring (optional)

The type of slime is the same clear gooey kind that you see in the movies. This is the real gooey deal! (This slime is non-toxic, but still keep these chemicals away from unsupervised children and wash your hands after playing with the slime.)

WHAT YOU DO:

1. Pour $\frac{1}{2}$ cup of the polyvinyl alcohol (PVA) solution into a beaker, jar, or bowl. If you want colored slime, add food coloring to the PVA solution and stir with a stir stick.
2. Add 2 teaspoons of the Sodium Tetraborate (Borax) Solution (see recipe below) into the PVA solution and stir slowly.
3. Try lifting some of the solution with the stir stick and note what happens.
4. Once the slime has formed, you can play with it. Just don't eat it!
5. Your slime will last longer if you seal it in a plastic bag and keep it in the fridge, otherwise it will dry out or mold.



WHAT HAPPENED:

Polyvinyl alcohol (PVA) is a liquid polymer and is therefore formed from long chains of connected molecules. The sodium tetraborate forms hydrogen bonds with oxygen present in the PVA chains. Hydrogen bonds occur when the positive charge of the hydrogen atoms attracts the negative charge of the oxygen atoms within the compound. The hydrogen bonds link the individual PVA strands to each other, creating a "blob" of slime. Since hydrogen bonds are weak, they will break and reform as you hold the slime or let it ooze onto a flat surface.