

Zombie Slime

aka monster slime or alien zombie monster slime

Equipment:

Triple beam scale (gram scale)
5 quart mixing bowl
Wire whisk (kitchen utensil)
4 small mixing containers (I use Tupperware)
Strong metal mixing spoon

Ingredients:

- water (tap water will work just fine but you can use distilled if you want)
- Guar Gum (from a health food store); this is the base material that makes the Slime. It is a powder.
- Glycerin (from a pharmacy or soap manufacturing supply company) this is a plasticizer. It makes the Slime stretchy.
- Sodium Chloride (any table salt will due but I like to use Star Flake Dendritic from Morton.) Salt simply holds onto the water in the Slime so that it does not dry out so fast.
- Boric acid (use 20 mule team Borax; a laundry detergent additive found in most grocery stores) this is the ingredient that creates the bond between the Guar Gum molecules and causes it to form a semi-solid morphic mass.

Formula for a 1 gallon batch:

128 ounces water
18 grams Guar Gum
77 grams Glycerin
7 grams Borax
50 grams sodium Chloride

Instructions:

1. Start with 128 ounces of warm or hot water. Pour approximately 8 ounces into a cup for later use. Pour the remaining 120 ounces into your 5 quart mixing bowl.
2. Using a gram scale, measure 18 grams of Guar Gum into a small container.

3. Evenly sprinkle the Guar Gum into the 5 quart mixing bowl. It is very important that you mix the Guar Gum into the water with the wire whisk as you sprinkle it in. If you just pour all of the Guar Gum into the water then attempt to mix, it will clump up and you will not be able to proceed. The goal is to saturate the Guar Gum with water as you sprinkle it into the water. Once the Guar Gum is mixed in, the water will appear murky and there will not be any lumps floating around. If you have 1 or 2 very small lumps in the water, you can pick them out with a spoon but you should really try to avoid this situation for the simple reason that the more Guar Gum that clumps up, the less that makes it into the usable mixture.

NOTE: It may be possible to dissolve clumps of Guar Gum by boiling the water and stirring it constantly but, why bother. Just do it right the first time.

4. Let the water and Guar Gum mixture set for 10 or 20 minutes depending on whether you use hot or cold water. During this time, the Guar Gum will swell up.

5. Measure 50 grams of sodium chloride into a small container then set it aside.

6. Measure 7 grams of Borax into a small container then set it aside.

7. Measure 77 grams of Glycerin into a small container.

Remember the 8 ounces of water you set aside? Now is the time to use it.

8. Add 4 ounces of the water (warm or hot) to the glycerin then mix it up. When you start mixing it, it will become murky. Keep mixing. When it is completely mixed, it will become as clear as water. The reason for adding the water is just to thin down the Glycerin so that it will be easier to completely pour into the rest of the mixture later without having too much stick to the small container you measured it into.

9. Add the remaining 4 ounces of water (warm or hot) to the Borax and mix it up. The Borax will not easily dissolve into the water. You will have to heat up the water and borax in a microwave until the water is almost boiling then take it out and mix it. Check to see if all of the Borax crystals have dissolved. If they have not, keep stirring and heating the water until it becomes completely clear. It is important that all of the Borax dissolves completely. Once completely dissolved, set it aside.

10. After the Guar Gum and water mixture has thickened (10-20 minutes), add the Sodium Chloride and mix thoroughly.

11. Add the Glycerin to the Guar Gum mix and mix thoroughly.

12. If you want to add coloring to the slime, now is the time to do it. You can add food coloring to create the desired color. If you want to make the color more opaque, you can add 1 gram of zinc oxide powder (from a pharmacy) at this time. You should disperse the zinc oxide in an ounce of water before adding it to the mix. When you add the zinc to 1 ounce of water and mix it up, there may be a few small clumps that will not break down. You can either try to smash them against the side of your mixing container or you can strain them out so that they don't end up floating around in the slime later. Add the zinc and water mix to the Guar Gum mixture now and stir.

13. Using a strong mixing spoon, stir the Guar Gum mixture while pouring the Borax dispersion in. At this time, the mixture will change from a watery liquid into Monster Slime. Keep mixing until the entire content of the mixing bowl completely changes into the slime. You can test this by mixing very quickly. The slime will stick to the mixing spoon and leave no residue at all on the bowl. If this happens then you are done, otherwise, keep mixing.

That's it! You are done.



Additional notes

- The sodium chloride is optional. The formula will work without it but may dry out faster when left out of its container.
- Star Flake Dendritic salt is popcorn salt. It is also the same salt that is used in Play-Doh.
- When handling the slime, if your hands are dirty, the slime will break down a little bit and make your hands wet and slippery. After a while, the slime will absorb the water left on your hands and return to its normal consistency. To avoid being slimed, wash your hands before using this material.
- Bacteria will begin to grow in the Monster Slime after handling. I suggest not mixing old Slime back into the same container with new, unused slime.

- There are anti-bacterial additives such as Vantocil IB (an ACMI approved biocide, safe for children) manufactured by Avecia Biocide Labs that can be added to combat the growth of bacterial. I use 1 teaspoon per gallon to make slime that will stay pretty clean and usable for at least 6 months. Call and ask for a free sample.

Avecia Biocide Lab, main office, customer service
Wilmington, DE
800 523-7391

NOTE: If you want your Monster Slime to last longer than a week or two after use then you must use an anti-bacterial. If you don't, the slime will turn into a moldy, disgusting liquid.

- If you can not obtain the biocide recommended above, you can try adding a couple ounces of hand sanitizer (clear) to the mix. I don't know what kind of results you can expect but it might be worth a try.
- Monster Slime is non-toxic but you should not eat it.

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