Recipe for GLUEP

Objective: To prepare the polymer GLUEP by carrying out a cross-linking of a simpler polymer. To design a data table for recording observations.

Materials

20 mL of diluted Elmer's Glue-All
1-2 drops of food coloring
5 mL 4% sodium tetraborate solution
1 plastic cup
1 wood stir stick
1 pair goggles

Procedure

1. Place 20 mL of the diluted Elmer's Glue-All in the plastic cup
2. Add 1-2 drops of food coloring and mix well with the wood stick
3. Add 5 mL 4% sodium tetraborate solution and stir
4. Once the GLUEP forms, remove it from the cup and knead it with your hands

CAUTION: Remember to wash your hands before leaving the laboratory.

Recipe for PVA SLIME

Objective: To prepare the polymer GLUEP by carrying out a cross-linking of a simpler polymer. To design a data table for recording observations.

Materials

20 mL 4% polyvinyl alcohol (PVA)
5 mL 4% sodium tetraborate solution
1-2 drops of food coloring
1 10 mL graduated cylinder
1 50 mL graduated cylinder
1 plastic cup
1 wood stir stick
1 pair goggles

Procedure

1. Using the 50 mL graduated cylinder, measure and pour 20 mL of 4% PVA into the plastic cup
2. Add 1-2 drops of food coloring and mix well with the wood stick
3. Using the 10 mL graduated cylinder, measure and pour 5 mL of 4% sodium tetraborate solution into the plastic cup and stir
4. Once the GLUEP forms, remove it from the cup and knead it with your hands

CAUTION: Remember to wash your hands before leaving the laboratory.