

Safety Guidelines

Important General Guidelines:

- Always wear safety goggles and gloves
- Always have long hair tied back
- Always wear an apron
- Remove all loose jewelry
- Roll up sleeves

Tornado (decomposition/production of a gas)

For Sodium Iodine and Hydrogen Peroxide:

- Hydrogen Peroxide is highly toxic
 - Wear gloves as it will burn skin
 - Wear goggles as the smoke it creates irritates eyes
 - Wear aprons so hydrogen peroxide does not get on clothing

Fireball (combustion reaction)

For Ethanol:

- Creates Fire which is VERY hot
 - Wear gloves as fire will burn skin
 - Wear goggles so fire does not irritate eyes

Poison (double displacement reaction)

For Iron Chloride and Potassium Dichromate:

- Iron Chloride is poisonous if ingested
 - Wear gloves and goggles so there is no chance of any chemicals going in mouth, skin, or eyes

Zap (synthesis)

For Magnesium Ribbon:

- Need to hold Magnesium Ribbon over Bunsen Burner
 - Wear gloves because Bunsen Burner produces flame
 - Wear goggles because bright light is produced
 - Use tongs to hold magnesium ribbon

Lighting of LED (single displacement)

For Aluminum and Copper Chloride

- Wear gloves and goggles
 - Irritates skin and can cause swelling
 - Do not ingest

Inflation of Balloon (production of gas/double displacement/decomposition)

For Baking Soda and Vinegar

- Wear gloves and goggles
 - Just for general safety (not toxic)