

Name \_\_\_\_\_

## Acidic Allies in Your Home: Common Household Products with Acids

### Open-Ended Response Answer Key

1. The potential risks of using household products containing acids include skin irritation or burns, damage to surfaces or clothing, and harmful chemical reactions if mixed with incompatible substances. Users can minimize negative effects by wearing protective gear, following usage instructions, and storing products safely.
2. The new household cleaner using citric acid as the primary cleaning agent is designed for effective kitchen and bathroom cleaning. Usage instructions would include diluting the product, applying it to surfaces, and wiping clean. Advantages for consumers include natural cleaning power, a pleasant citrus scent, and eco-friendliness.
3. When acetic acid in vinegar is used for cleaning, it reacts with substances like grease and stains to break them down. It effectively removes odors by neutralizing them and acts as a natural disinfectant. The acetic acid's acidic properties make it effective for cleaning and deodorizing.
4. Acids like citric acid and acetic acid are used in food preservation due to their ability to create an acidic environment that inhibits the growth of harmful microorganisms. They also enhance flavor, add tartness, and improve the shelf life of preserved foods like pickles and fruit juices.

