

Safety Information for Orbeez Experiment  
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9/3/2024

### **Personal Protective Equipment**

- Goggles
- Nitrile gloves
- Protective clothing (long pants, long sleeves, lab coat optional)
- Closed toed shoes

### **Hazards**

The materials of the reaction are water, agar, gelatin, food coloring, red cabbage juice, vinegar, vegetable oil, and baking soda. All materials are benign, but vegetable oil is combustible and vinegar is an irritant. To prevent any health concerns, wear nitrile gloves, goggles, closed toed shoes, and protective clothing. In the case of irritation by vinegar, flush the irritated region with water for at least 10 minutes; seek further treatment if needed. In the case of combustion of vegetable oil, smother with a towel or quench with a fire extinguisher.

In the case of an emergency, call 911 and follow the appropriate instructions.

### **Disposal**

Once the experiment is finished, all liquids (water, food coloring, red cabbage juice, vinegar, vegetable oil) can be flushed down the sink while running cold water. All solids (agar, gelatin, baking soda) can be disposed of in the trash. Make sure to wear all of the personal protective equipment during this step as well as during the experiment.

### **Liability**

*The University of Delaware and the NRT MIDAS Program are not liable for any damages caused by conducting this experiment. By reading this document the user agrees to take responsibility for any damages caused by conducting the listed experiment.*