



# Stoichiometry Balloon Races

# **Limiting and Excess Reactants**

#### Introduction

Most, stoichiometry calculations in the classrooms are performed using exact (stoichiometric) mode ratios of reactions and products. In real life, however, many commercial processes for preparing compasses are carried out using an excess amount of one reaction (and thus a limiting amount of another reaction). This corresponds the uses the well-known reaction of sociams bicarbonous and acetic acid to illustrate the concepts of finiting and excess reactions. By comparing the another the concepts of finiting and excess reactions of sociams bicarbonate react with a given amount of acetic acid, stademan well be able to dentify interestinable to the finiting and excess reactions.

# Concepts

- · Suitchiornerry
- Limeiting resultant.
- "Mode master."
- Excess reactions.

# Materials

Acesic acid, CH<sub>2</sub>COOH, 1 M, 150 mL

Sudiana bicarlamate, NaHCO, 1005 e.

Balleton, certificate (0:01-g precision).

Rallingers, &

Firlmore over flasks, 125-mil., &

Transport!

Circumstanti cylindian, 25- or 50-roll.

Permanent marker

Provider.

Squatadle.

Weighting distance, is

# Safety Precautions

Acesic acid is a skin and eye irritant. Assis; contact with eyes and skin. West chemical splash griggles, thereical resistant gloves and a chemical resistant aprove. Please consult current Safety Data Showta for additional safety information.

# Preparation

- Label etc. Erlemmeyer flacks 1–6. Using a gradianted cylinder, add 25
  red, of 1 M acetic acid to each flack.
- 2. Obsain six weighing dishes, and label them 1-6.

 Measure the appropriate ansours of undianobicarbonate into each weighing dish, according to Table 1.

#### Table 1.

Saruple	1	2	. 5	4	.5	6
Mass NaHCO <sub>p</sub>	0.50 gc	1.00 g	1.50 gr	2.60 gr	2.50 g	3.00 gt

- Obtain etchalloresi. Stretch the balloons, and blow there up at least once, then let out as much air is possible.
- Use a powder funnel so add sodium bicarbonate sample 1 to one of the halloons.
- b. Platters out the halloon to reviewe any evera sir, then carefully stretch the neck of the halloon over the mouth of Erlenneyer flask 1. Do not allow the solid, to drup into the flask at this time.
- Repeat steps 5 and 6 with endians bicarbonute samples 2–6.

#### Procedure

- Introduce the concepts of limiting and events reagents by adding stations how many automobiles can be assembled if the following purus are available: 140 car bodies, 520 tires and 270 headlights.
- 2. Which automobile part is present in a cuantity that "limits" the total number of automobiles that may be assembled? In the limiting part the same as the part that is present in the least number? Explain. Note: The tires are the limiting parts in this example, even though there are note tires than anothing rise.
- Show easients the balloon/flack assemblies and ask them to predict what will happen when the extrant bicarbonate is added to the acetic acid in the flack. White the reaction equation on the brand.
- Line up thasks 1—to from right to bell on the leasure desk, Lift each hallows in turn and shake it to allow the orbit to fall into the solution. Make sure the neck of the balloon stage firmly attached to the thask.
- The reactions will be immediate and vigorous. The white solids will disorder, the solutions will start to buildle and floo, and the balloom will become inflated.
- 6. Although the relations to proceed until the habiting stops. Compute the stop of the inflated halfstors and whether all the widel has disculsed in each case. (The halfstors stop should increase fairly uniformly for flade 1-5, and then stop constant. It may be hard to sell the differential between flades 4.5 and 6.1.

# **Stoichiometry Balloon Races Limiting And Excess Reactants Answers**

**Christian Drosten** 

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