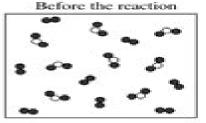
#### CHEM 108 ChemActivity 17: Limiting Reagents Solution Key

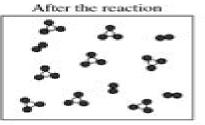
#### The Model: Limiting Reagent

Sulfur dioxide reacts with oxygen to yield sulfur trioxide according to the equation:

$$2 \operatorname{SO}_2(g) + \operatorname{O}_2(g) \rightarrow 2 \operatorname{SO}_3(g)$$

While what's on the right may not be realistic, suppose there's a vessel that initially contains 8 SO<sub>2</sub> molecules and 8 O<sub>2</sub> molecules. The vessel is closed so that molecules cannot escape. If the reaction proceeds to the fullest extent, the "before" and "after" freeze frames of the system look like what's on the right.





#### Key Questions

- Refer to the Model. Which reactant SO<sub>2</sub> o(O<sub>2</sub>) remains in the "after" picture (and is, therefore, the excess reagent)? (Circle your answer.)
- Had there been more of a particular reactant, more sulfur trioxide would have been produced. Which reactant - Oo or O2 - limited the production of sulfur trioxide? (Circle your answer.)
- c. In your own words, define what a limiting reagent is.

The limiting reagent is the reactant that limits the production of the product of a chemical reaction. If more limiting reagent is available, then more product can be generated by its consumption.

# **Chemactivity 6 Alien**

Robert C. Smoot, Smoot, Richard G. Smith, Jack Price

# **Chemactivity 6 Alien:**

Merrill Chemistry Robert C. Smoot, Smoot, Richard G. Smith, Jack Price, 1998

Unveiling the Magic of Words: A Overview of "Chemactivity 6 Alien"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is actually aweinspiring. Enter the realm of "**Chemactivity 6 Alien**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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