

Ch 2  
Sec 2.2-2.3  
Obj: Classify an object as a mixture or a substance.

### Mixture

- A mixture is an object which contains more than 1 substance.

\* Each substance or part of the mixture that can be identified is called a phase.

- 2 Types of Mixtures

1) Heterogeneous Mixture.

\* mixture w/ more than 1 phase.

2) Homogeneous Mixture

\* Only 1 phase is identified.

\* Solutions - Homogeneous mixture w/ one part being a liquid.

- Mixtures can be physically separated into its parts.

9/5/02 7:39 AM

### Substance

- An object made-up of one thing.

\* pure substance.

\* 1 type of atom, molecule or formula unit.

- 2 Types of Substances

1) Element

\* 1 type of atom.

2) Compound

\* 1 type of molecule or formula unit.

### Chemical Symbols

- Represents an element

\* An abbr. of the element's name.

Sulfur  $\rightarrow$  S      Mercury  $\rightarrow$  Hg

Silicon  $\rightarrow$  Si      Copper  $\rightarrow$  Cu

- Chemical Formulas are used to represent compounds.

\* Represents the elements + the ratios of the atoms/ions.



- Substances cannot be physically separated.

\* Can only be separated by a chemical process.

Sep 6 - 10:39 AM