Major changes to the Hazard Communication Standard and Global Harmonization System (GHS)

- **Hazard classification**: Provides specific criteria for classification of health and physical hazards, as well as classification of mixtures.
- **Labels**: Chemical manufacturers and importers will be required to provide a label that includes a harmonized signal word, pictogram, and hazard statement for each hazard class and category. Precautionary statements must also be provided.
- **Safety Data Sheets**: Will now have a specified 16-section format.

**Information and training**: Employers are required to train workers by December 1, 2013 on the new label elements and safety data sheet format to facilitate recognition and understanding.

### SDS 16 Section Format

Section 1. Identification  
Section 2. Hazard(s) identification  
Section 3. Composition/information on ingredients  
Section 4. First-Aid measures  
Section 5. Fire-fighting measures  
Section 6. Accidental release measures  
Section 7. Handling and storage  
Section 8. Exposure controls/personal protection  
Section 9. Physical and chemical properties  
Section 10. Stability and reactivity  
Section 11. Toxicological information  
Section 12. Ecological information  
Section 13. Disposal considerations  
Section 14. Transport information  
Section 15. Regulatory information  
Section 16. Other information, including date of preparation or last revision

### New GHS Classification and Labeling

**Materials are classified based on Criteria for Physical and Health Hazards**

### New Labeling provisions under GHS

**Label elements are:**

1. Product identifier/ingredient disclosure  
2. Supplier identification  
3. Symbol/hazard pictograms  
4. Signal Words  
5. Hazard Statements  
6. Precautionary information

#### Label Elements Example

<table>
<thead>
<tr>
<th>Category 1</th>
<th>Category 2</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Symbol</strong></td>
<td><img src="image" alt="Symbol" /></td>
</tr>
<tr>
<td><strong>Signal Word</strong></td>
<td>Danger</td>
</tr>
<tr>
<td><strong>Hazard Statement</strong></td>
<td>May be fatal if swallowed and enters airways.</td>
</tr>
</tbody>
</table>