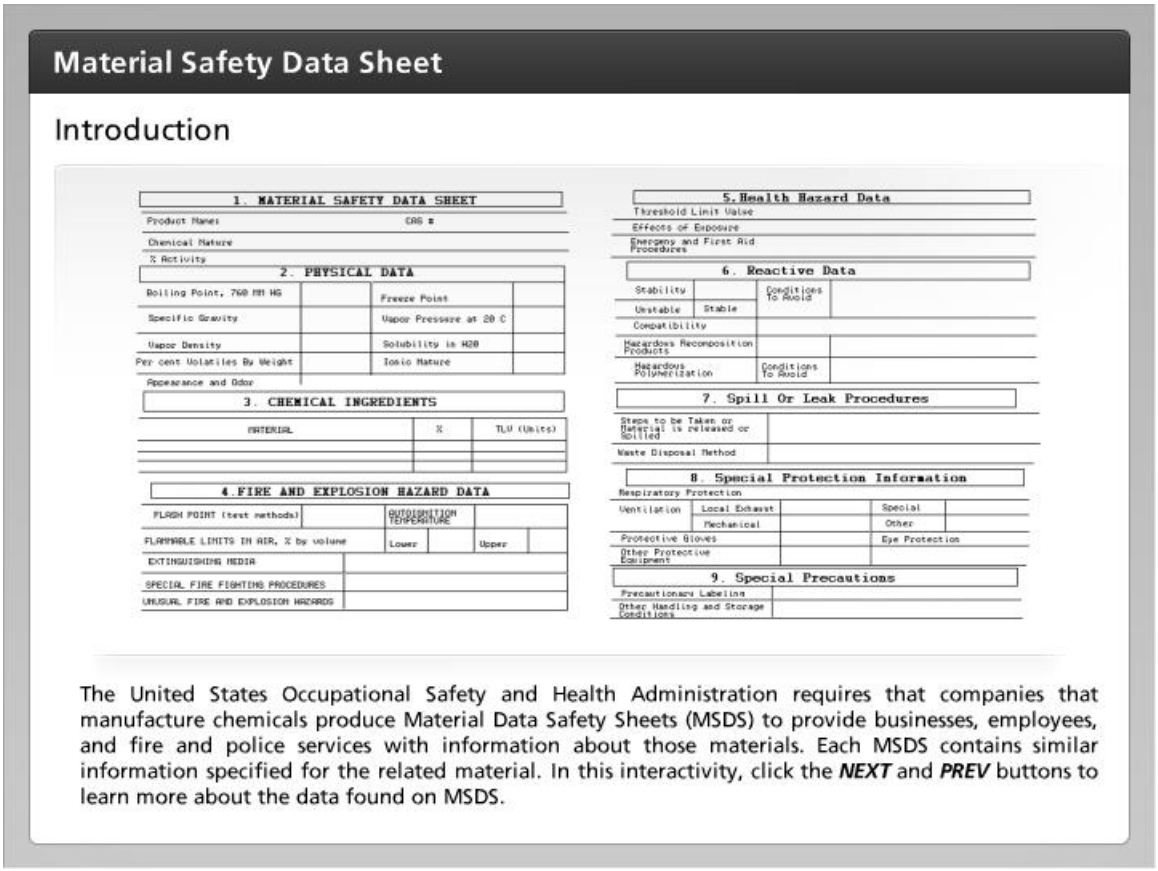
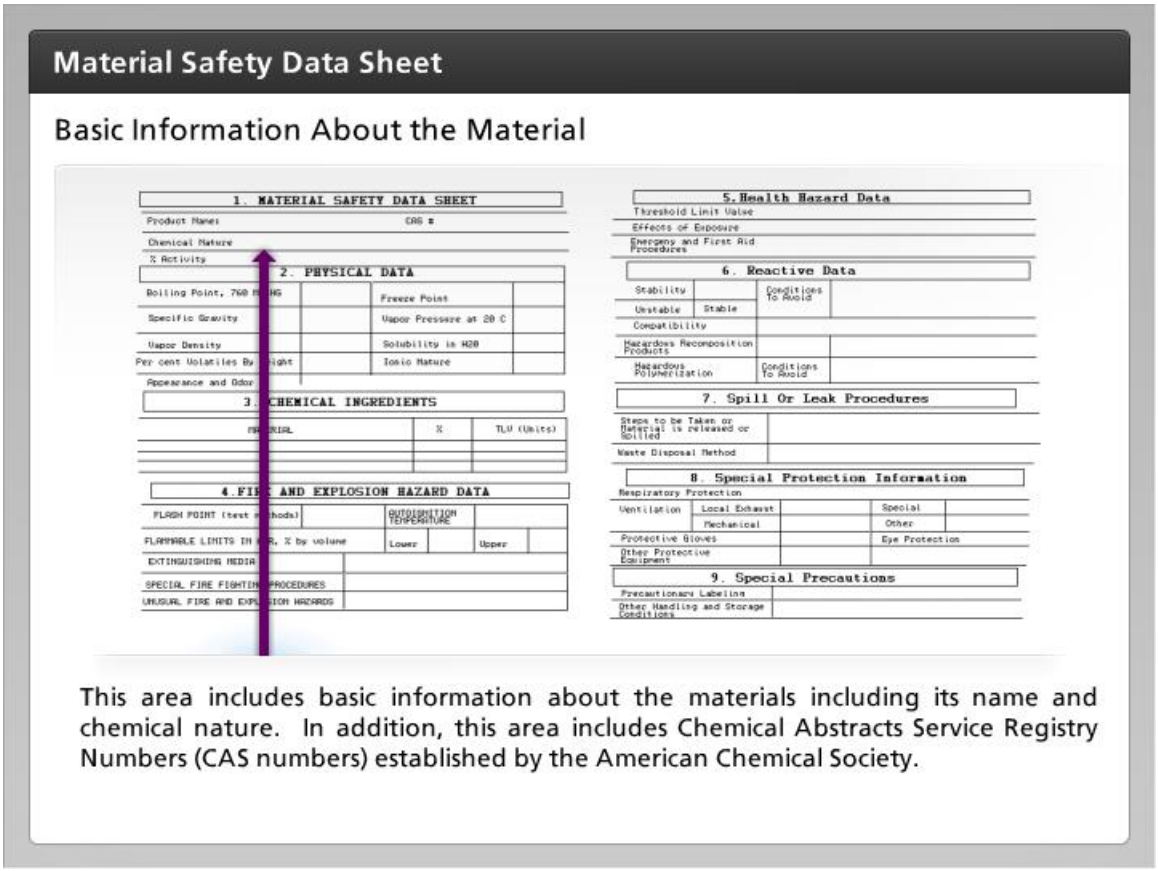
Introductory Module: Fundamentals of Science
Topic 6 Content: Material Safety Data Sheet Presentation Notes

Introduction



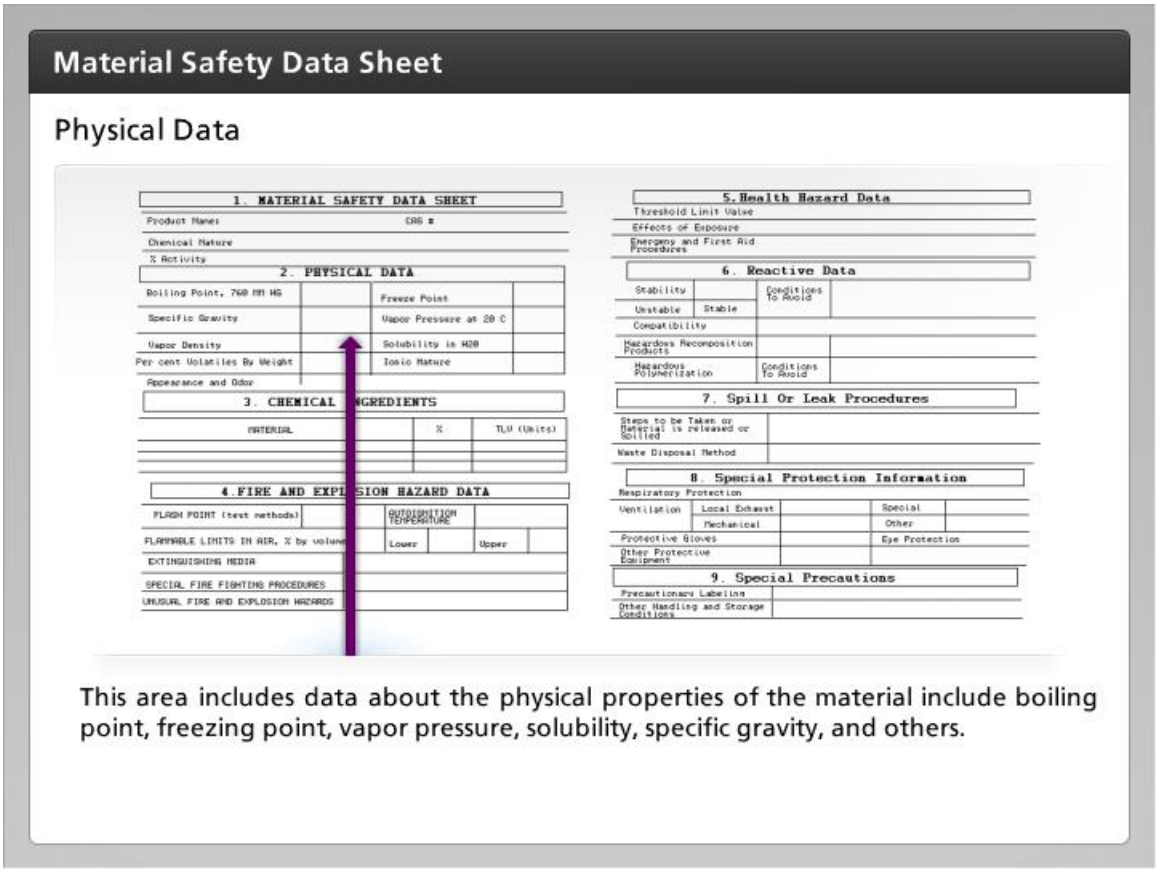
The United States Occupational Safety and Health Administration requires that companies that manufacture chemicals produce Material Data Safety Sheets (MSDS) to provide businesses, employees, and fire and police services with information about those materials. Each MSDS contains similar information specified for the related material. In this interactivity, click the ***NEXT*** and ***PREV*** buttons to learn more about the data found on MSDS.

Basic Information About the Material



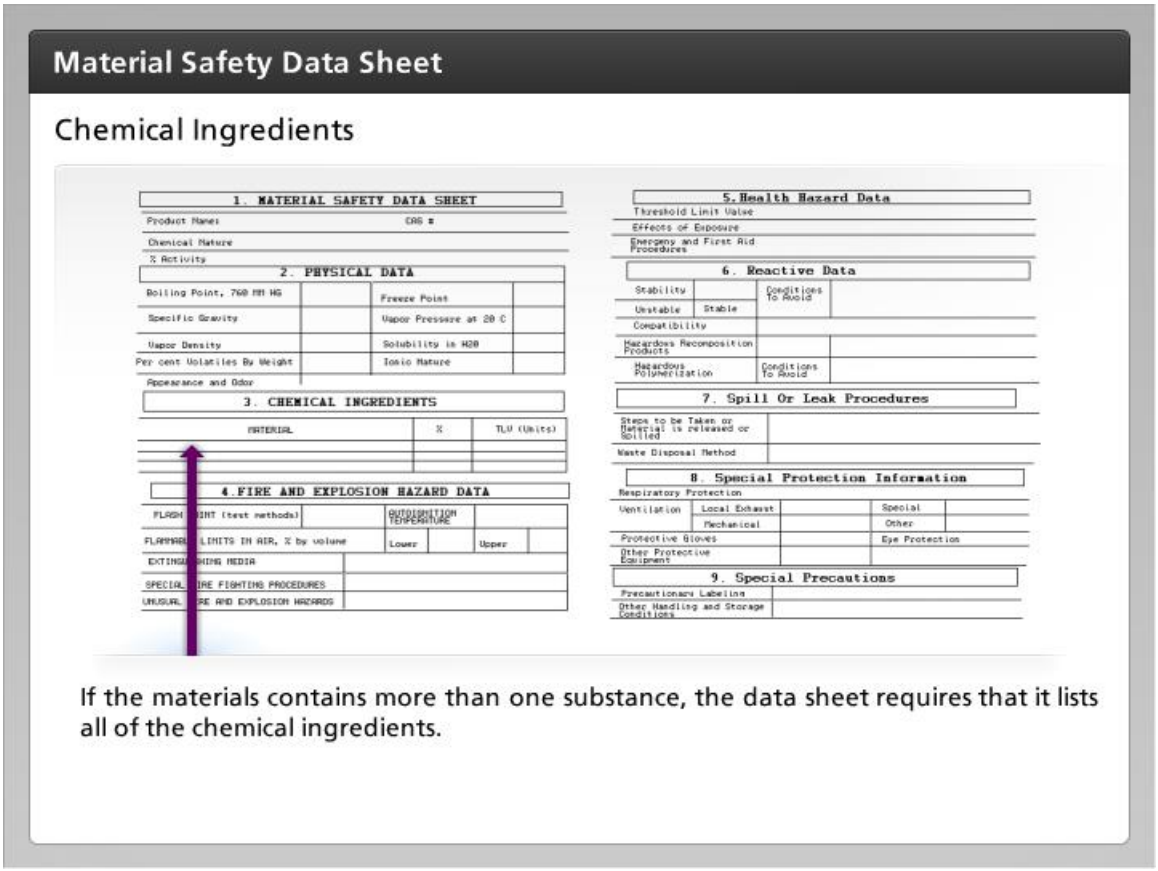
This area includes basic information about the materials including its name and chemical nature. In addition, this area includes Chemical Abstracts Service Registry Numbers (CAS numbers) established by the American Chemical Society.

Physical Data



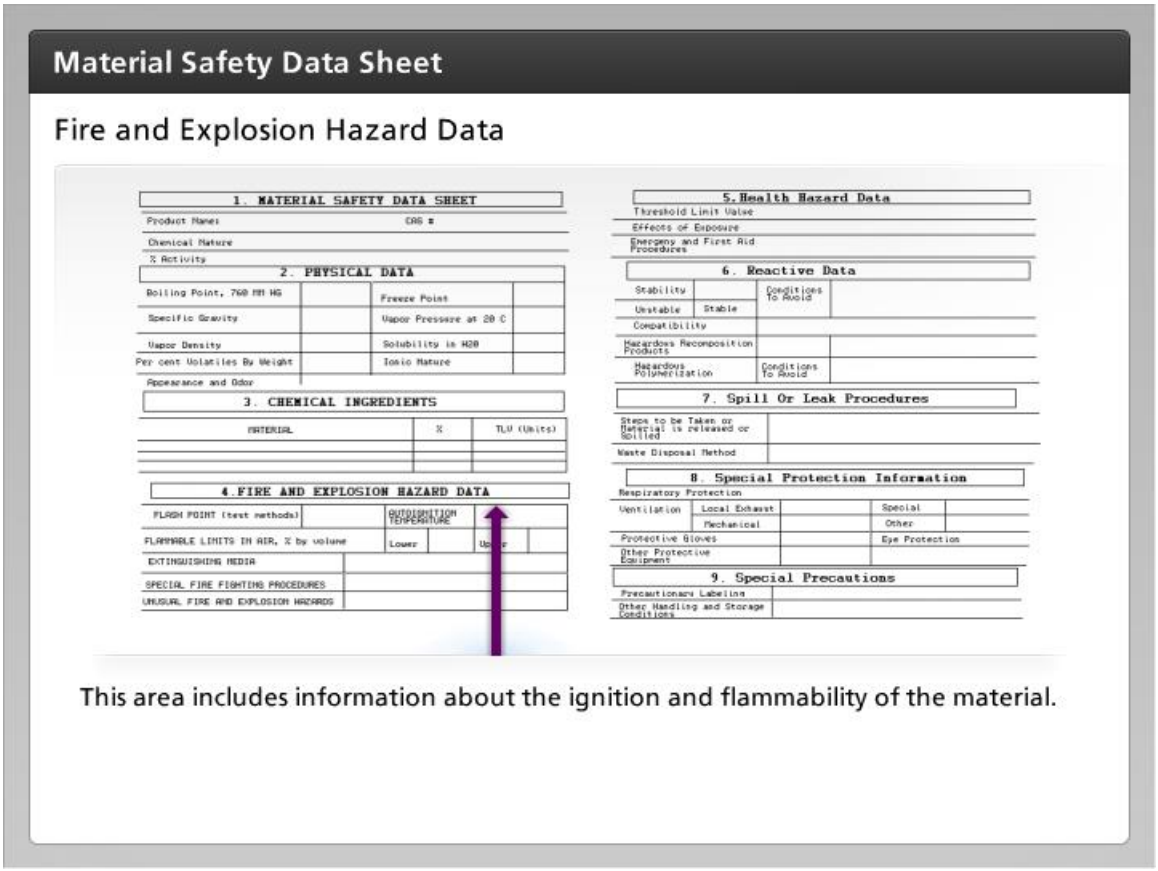
This area includes data about the physical properties of the material include boiling point, freezing point, vapor pressure, solubility, specific gravity, and others.

Chemical Ingredients



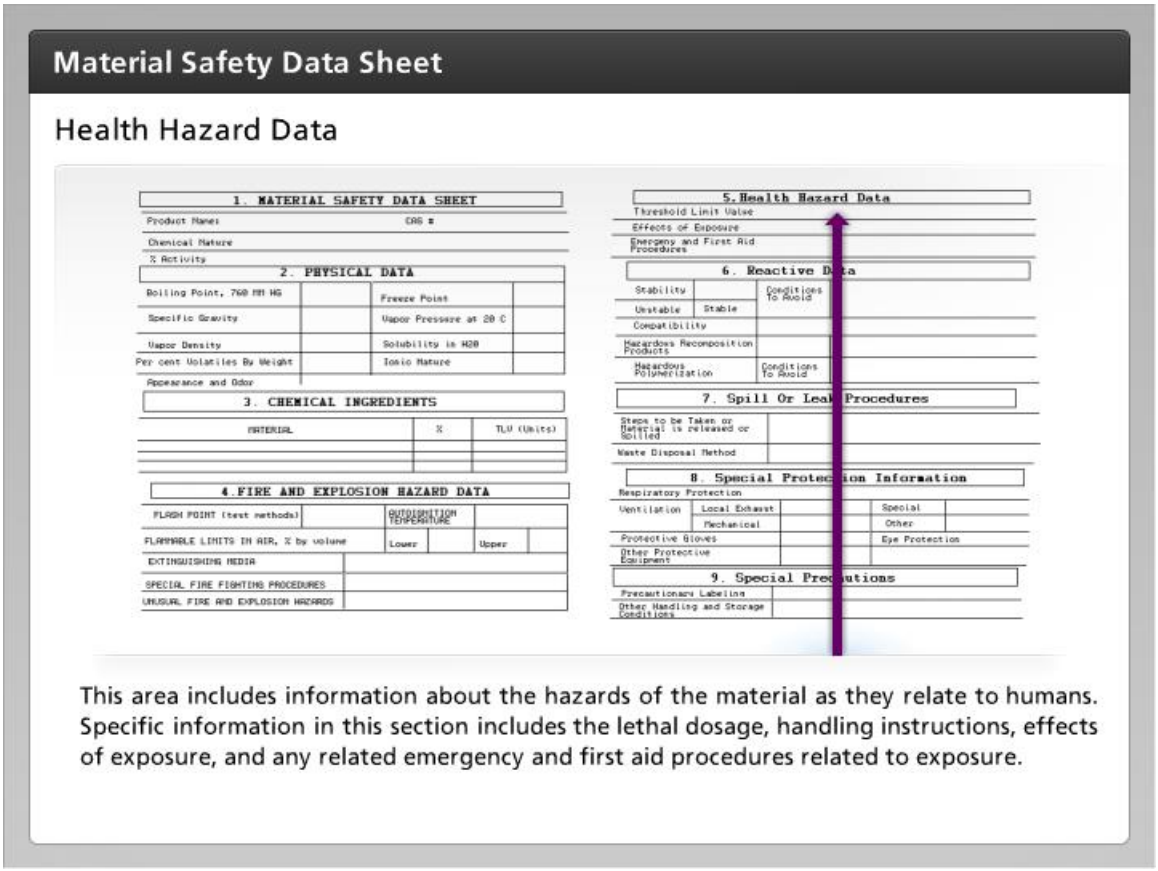
If the materials contain more than one substance, the data sheet requires that it lists all of the chemical ingredients.

Fire and Explosion Hazard Data



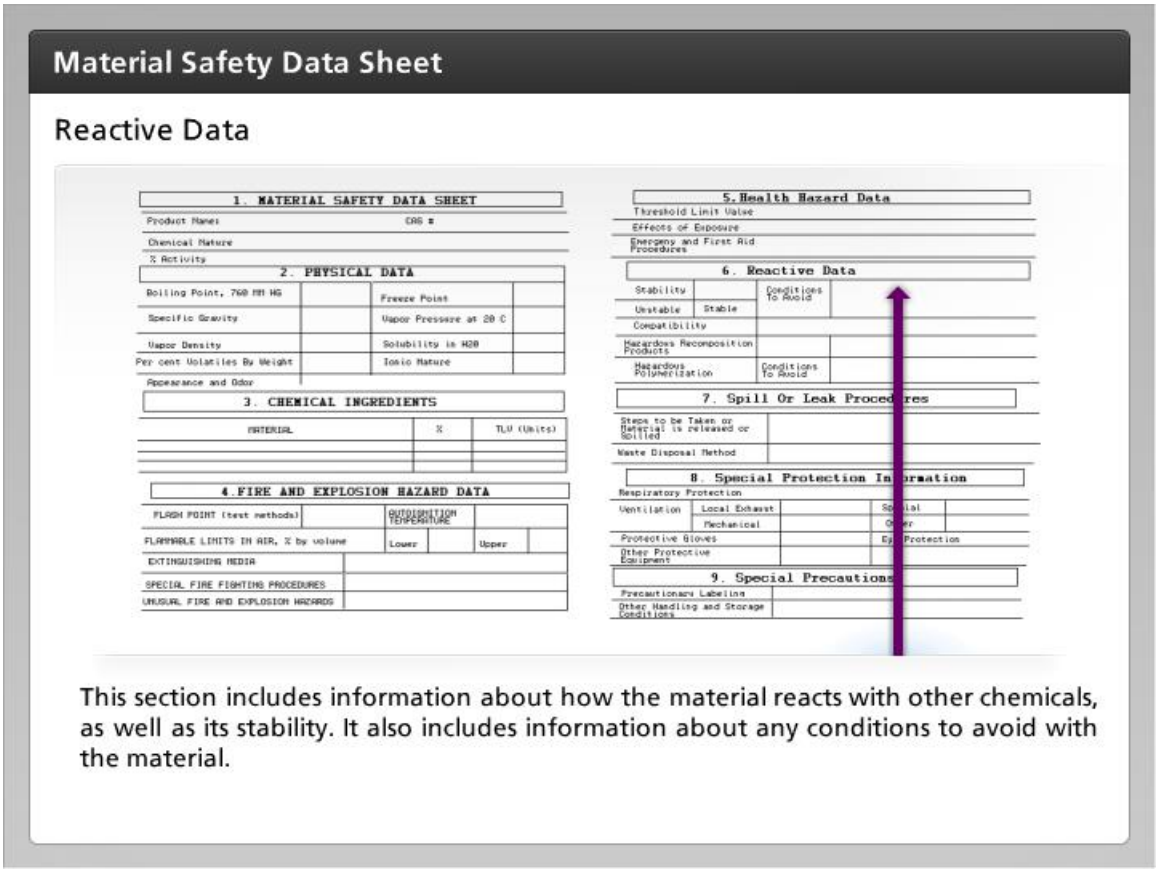
This area includes information about the ignition and flammability of the material.

Health Hazard Data



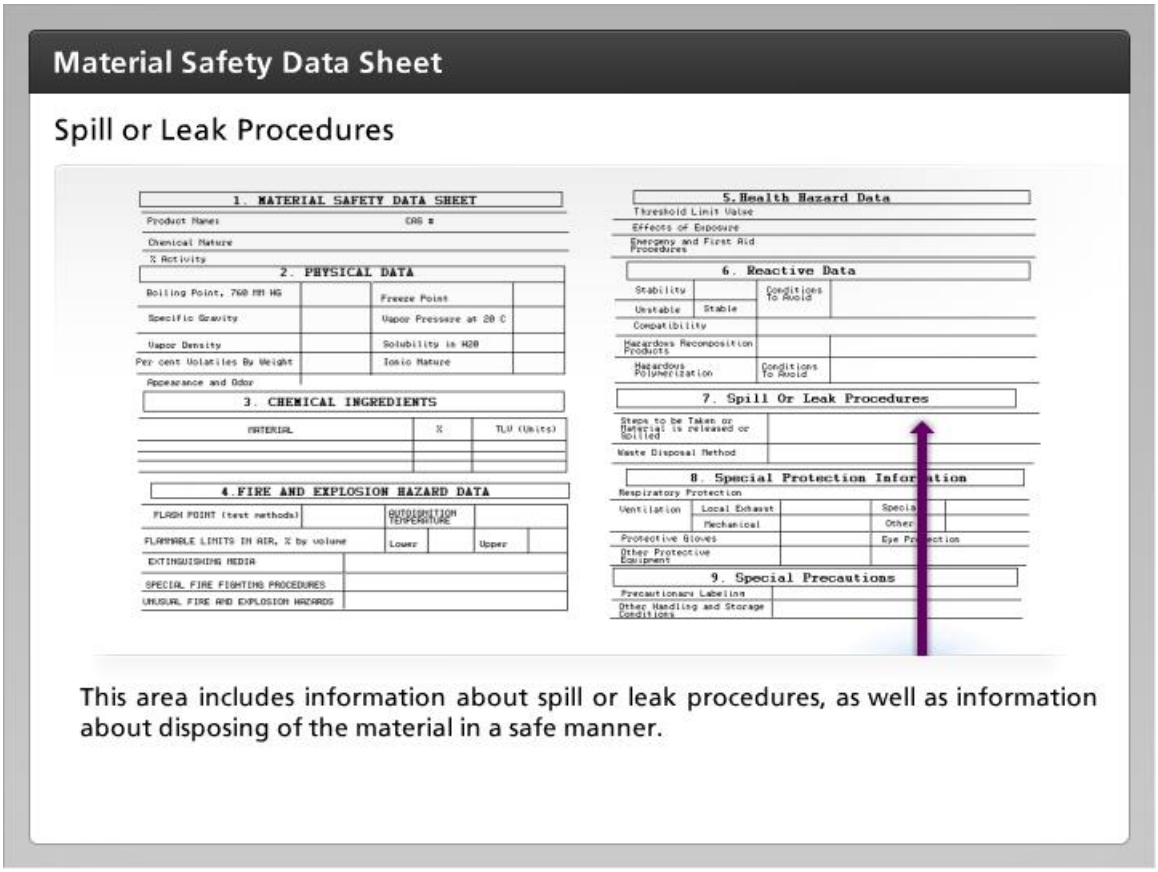
This area includes information about the hazards of the material as they relate to humans. Specific information in this section includes the lethal dosage, handling instructions, effects of exposure, and any related emergency and first aid procedures related to exposure.

Reactive Data



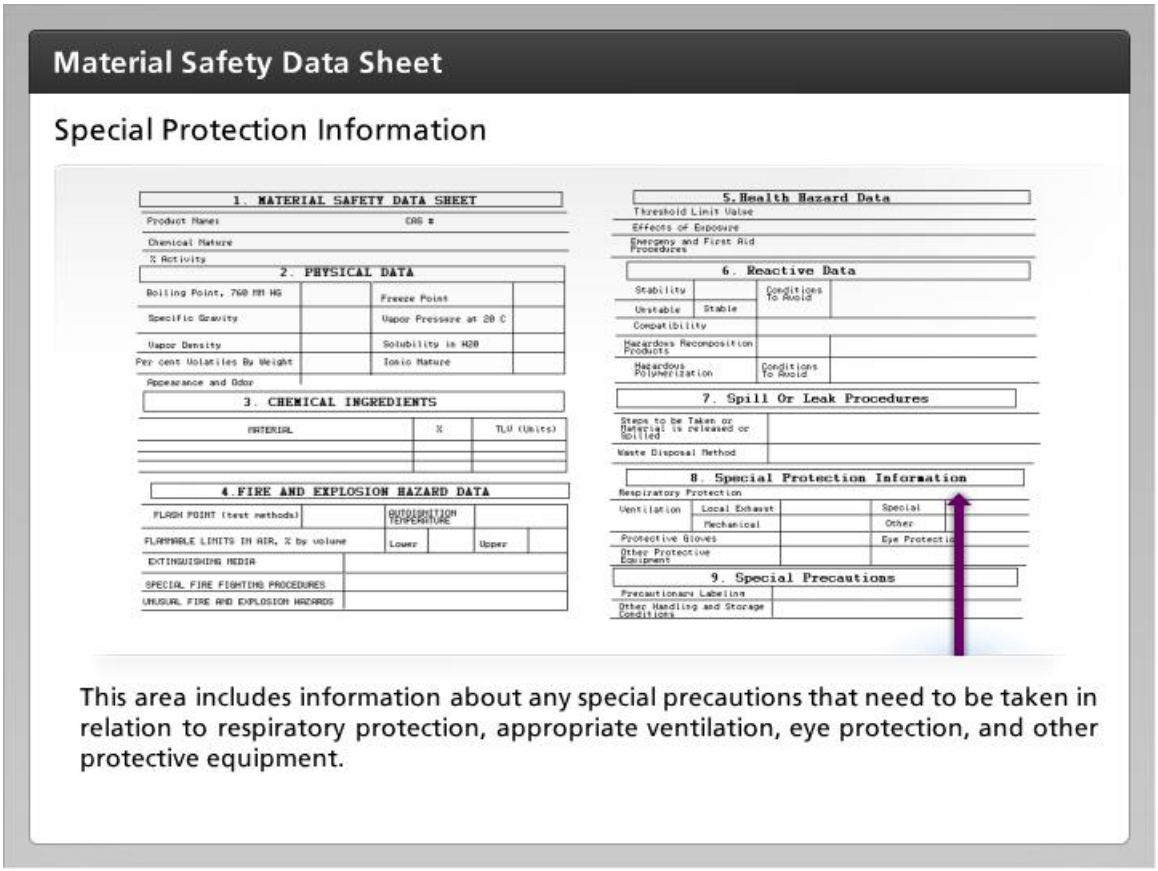
This section includes information about how the material reacts with other chemicals, as well as its stability. It also includes information about any conditions to avoid with the material.

Spill or Leak Procedures



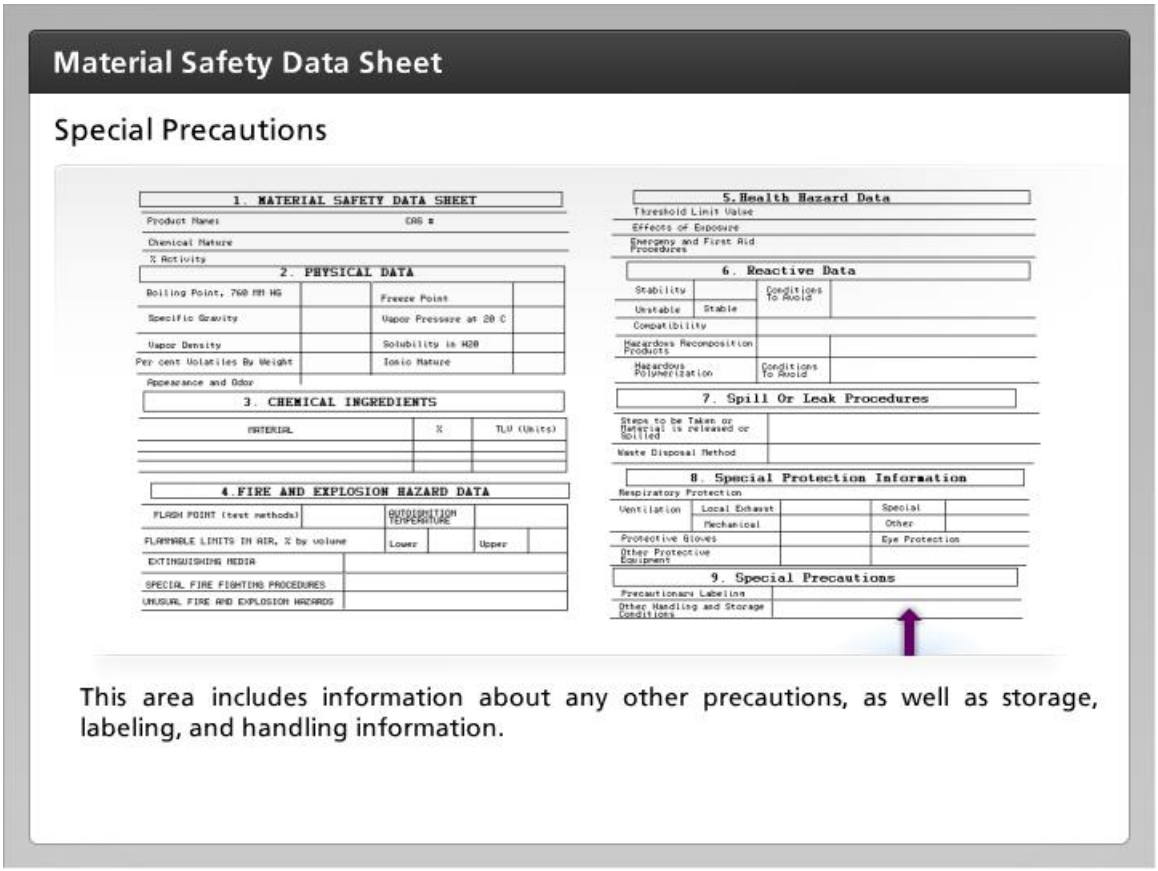
This area includes information about spill or leak procedures, as well as information about disposing of the material in a safe manner.

Special Protection Information



This area includes information about any special precautions that need to be taken in relation to respiratory protection, appropriate ventilation, eye protection, and other protective equipment.

Special Precautions



This area includes information about any other precautions, as well as storage, labeling, and handling information.