

## MSDS Information

Material Safety Data Sheets from different companies may look different, but they contain the same information. MSDS that follow the ANSI Standard have the following 16 sections:

**Section 1: Chemical Product & Company Information** - provides the chemical name on the label to the MSDS. Also listed is the name, address and the phone number of the company, manufacturer or distributor who provides the chemical.

**Section 2: Composition & Ingredients** - identifies all hazardous ingredients, OSHA permissible exposure limits (PEL) & ACGIH (American Conference of Governmental Industrial Hygienists) Threshold Limit Values (TLVs).

**Section 3: Hazard Identification** - information about the health effects of exposure. Description of the material appearance, potential symptoms & health effects, routes of entry & target organs.

**Section 4: First Aid** - Provides first aid procedures for each route of entry.

**Section 5: Firefighting** - information on the explosive & fire properties,

extinguishing agents and items and general firefighting information.

**Section 6: Accidental Release** - information on material spill response, containment and required spill response PPE.

**Section 7: Handling and Storage** - information about chemical storage & handling and measures to prevent overexposure.

**Section 8: Exposure Controls & Personal Protection** - engineering controls & personal protective equipment to reduce chemical exposure.

**Section 9: Physical & Chemical Properties** - this section tells about the physical and chemical properties of the chemical. Characteristics include appearance, odor, physical state, pH, vapor pressure, vapor density, boiling point, freezing/melting point, solubility in water and specific gravity or density.

**Section 10: Stability & Reactivity** - all potentially hazardous chemical reactions are identified in this section. Includes information on chemical stability, conditions to avoid, incompatibility, hazardous decomposition and hazardous polymerization.

**Section 11: Toxicological Information** - provides information such as acute data, carcinogen potential, reproductive effects, target organ effects, and other physiological aspects.

**Section 12: Ecological Information** - information concerning the environmental impact if a chemical is released into the environment.

**Section 13: Disposal Considerations** - information concerning proper chemical disposal, recycling and reclamation.

**Section 14: Transport Information** - shipping information includes the hazardous materials description, hazard class and the identification number (UN or NA numbers).

**Section 15: Regulatory Information** - provides information about applicable federal regulations. Examples include OSHA, TSCA (Toxic Substance Control Act), CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act), SARA Title III (Superfund Amendments and Reauthorization Act).

**Section 16: Additional Information** - provides other information about the chemical such as hazard ratings, preparation and revisions of the MSDS, and label information.