
Safety Data Sheets (SDS)

Knowledge Probe (KP) Participant Guide

KP Description and Purpose

Being able to locate and interpret a Safety Data Sheet (SDS) is important to anyone involved in the fabrication of MEMS devices. MEMS fabrication requires several hazardous chemicals. A SDS explains these hazards and provides information necessary to protect one's self and how to respond to an emergency involving a certain chemical. One should always study a chemical's SDS prior to working around or handling a chemical. *(Note: Prior to 2013 SDS was called MSDS)*

This knowledge helps you to identify what you do and don't know about the SDS.

Following are ten (10) knowledge probe questions. Answer them to the best of your knowledge.

1. What is a SDS?
 - a. Standard Data Sheet
 - b. Safety Data Statistics
 - c. Safety Data Sheet
 - d. Supplier Data Sheet
2. For which type of chemicals does OSHA require a SDS?
 - a. Only those that pose a health hazard
 - b. Only those that are flammable
 - c. Only those that are considered hazardous to health and environment
 - d. All chemicals in a facility
3. Who is responsible for developing a SDS for a chemical?
 - a. OSHA
 - b. The chemical manufacturer
 - c. The chemical buyer
 - d. NFPA
4. OSHA requires that SDS's are readily accessible to all employees. This can be through having accessible copies on the premises or having access to the Internet to acquire a copy.
 - a. True
 - b. False

5. Which of the following is NOT a mandatory requirement by OSHA to be included in a SDS?
- Physical / Chemical Properties
 - Handling and Storage requirements
 - Control Measures
 - Transport information
6. In which section of a SDS would you find the safety information listed in Figure 1?
- Health Hazards and First Aid
 - Spill or Leak Procedures
 - Control Measures
 - Fire / Explosion Hazards Data

Isolate area when spilled
Safety Goggles
Chemical resistant clothing
Use respirator for
Frequent / heavy exposures

Figure 1.

7. Which of the following is considered a "product name"?
- Ammonia
 - Chlorine solution
 - Window cleaner
 - Cl₂
8. The information in Figure 2 would be found in which section of a SDS.
- First-aid measures
 - Hazard Identification
 - Physical and chemical Properties
 - Stability and Reactivity

Vapor pressure = 760 mmhg @ 13 C
Pungent odor
Colorless
Boiling point = 54.5 F (12.5 C)

Figure 2

9. PEL stands for _____.
10. In which section of a SDS would one find "conditions to avoid?"
- Health Hazards
 - Physical / Chemical Properties
 - Fire and Explosion Hazard Data
 - Reactivity Data

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